



CCA GCA ACC AAT GAT GCC CGT T-TAMRA-3'  
CA GCA ACC AAT GAT GCC CGT T-TAMRA-3'

CCA GCA AGC ACT GAT GCC TGT T-TAMRA-3'  
CA GCA AGC ACT GAT GCC TGT T-TAMRA-3'

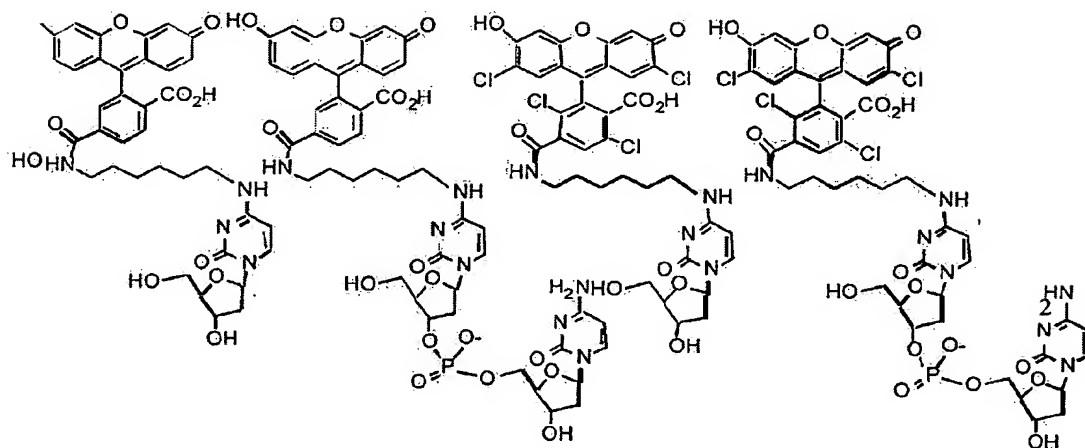
**Fig. 1A**

**Fluorescent Dyes**

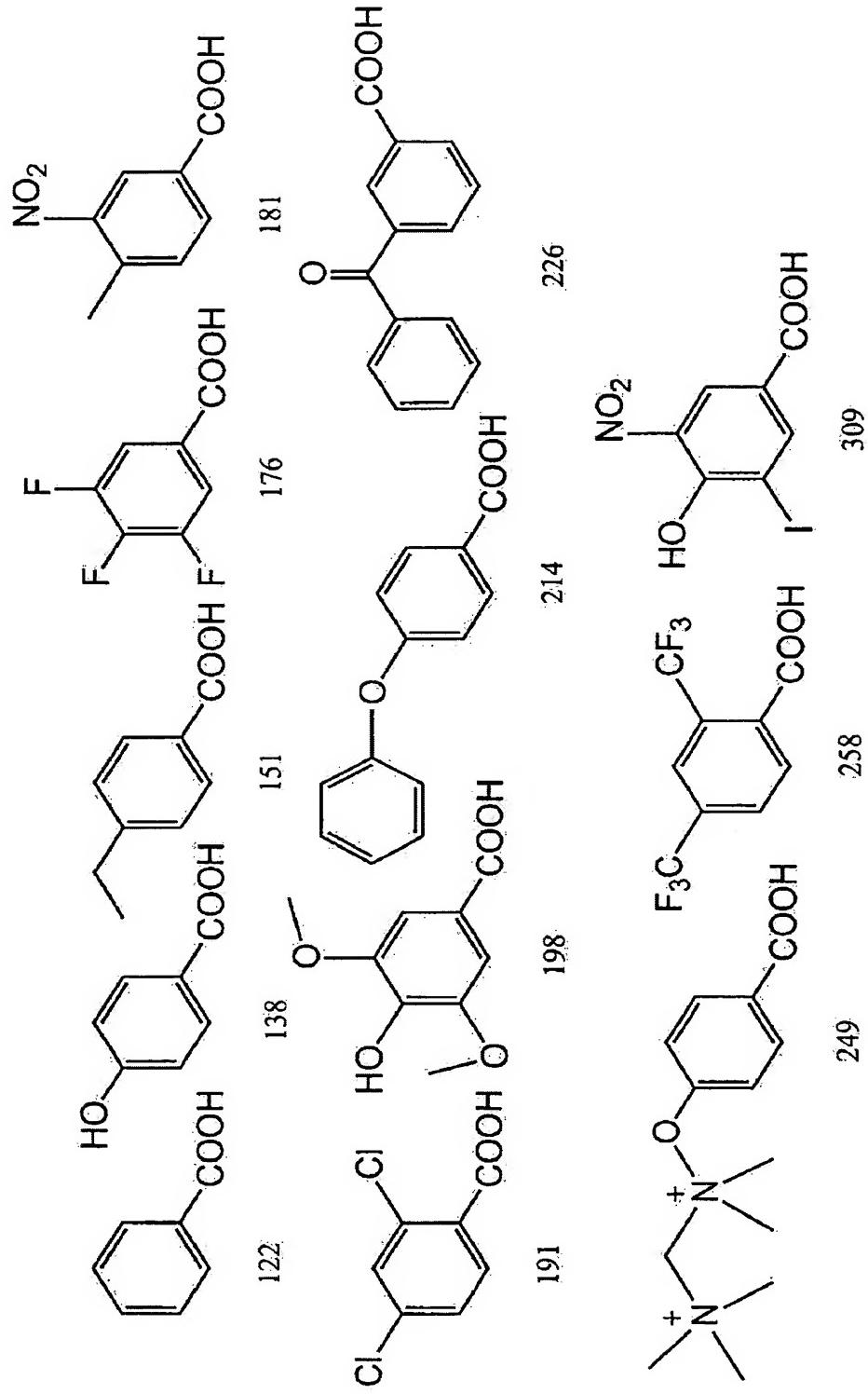
	<u>Absorbance Maxima</u>	<u>Emission Maxima</u>
Fluorescein	494nm	525nm
Tetrachloro fluorescein	521nm	536nm
TAMRA	565nm	580nm

**Fig. 1B**

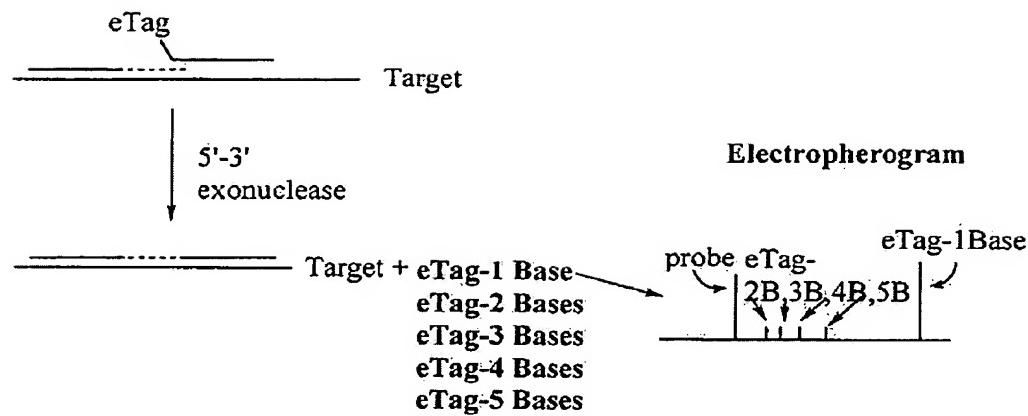
Cleaved Fragments:



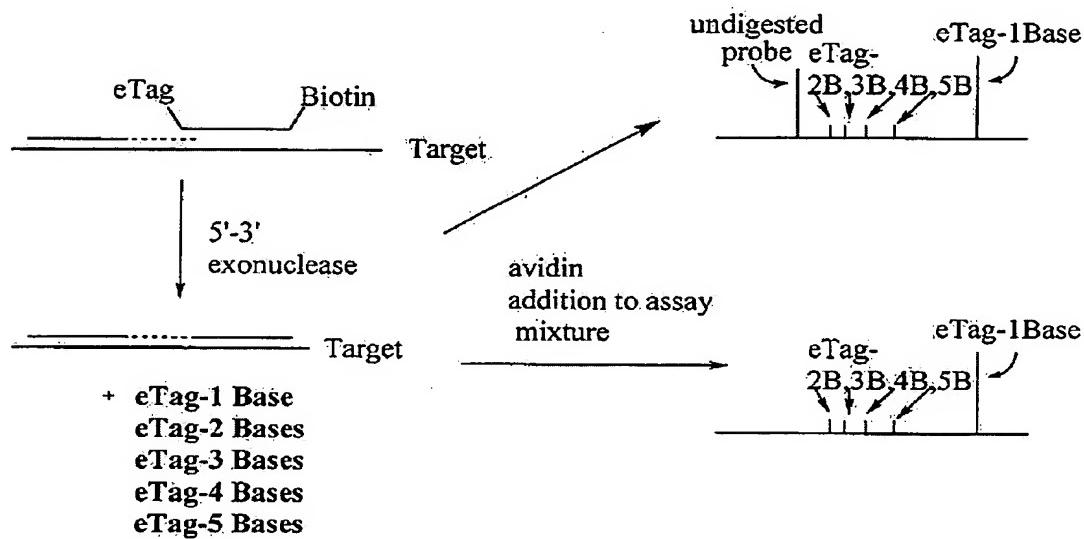
**Fig. 1C**



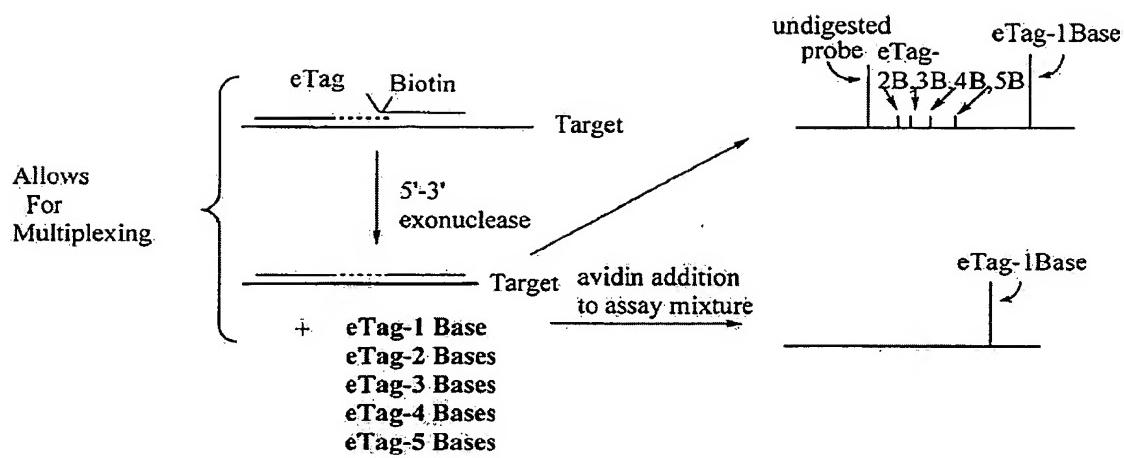
**Fig. 2**



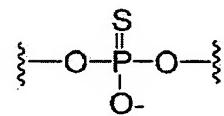
**Fig. 3A**



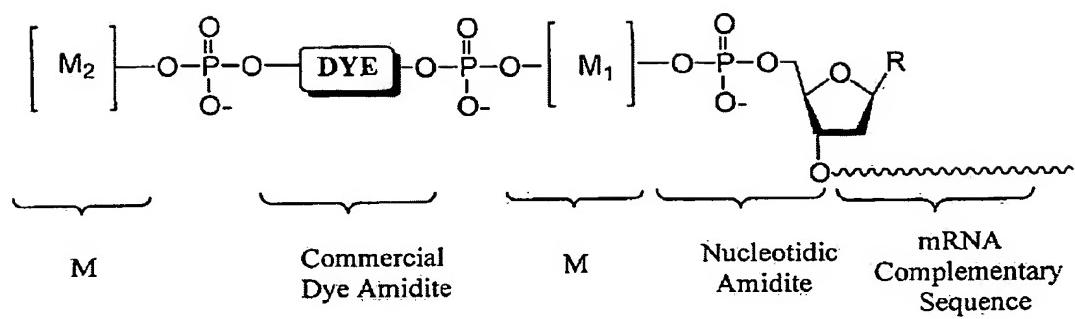
**Fig. 3B**



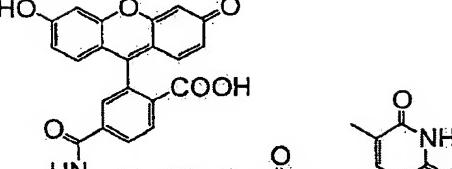
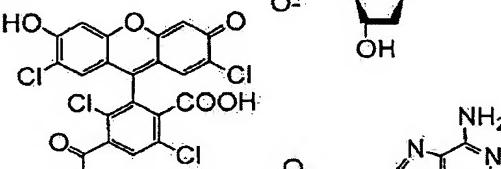
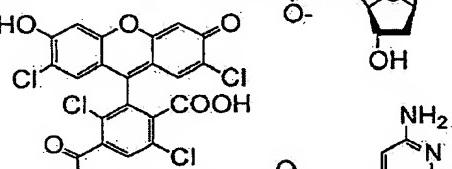
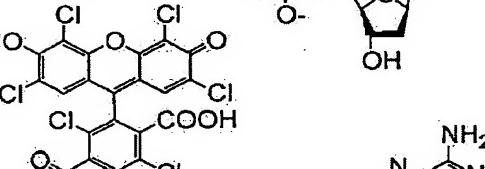
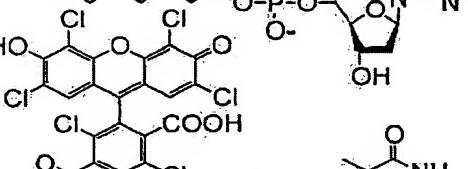
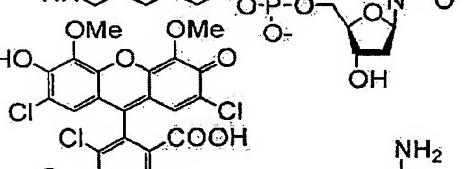
**Fig. 3C**



**Fig. 3D**



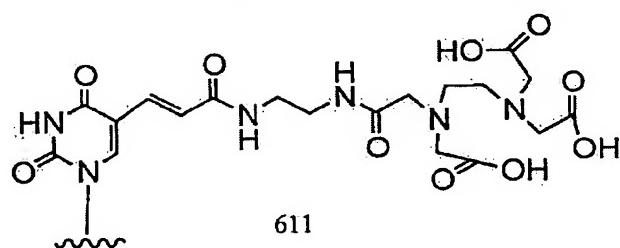
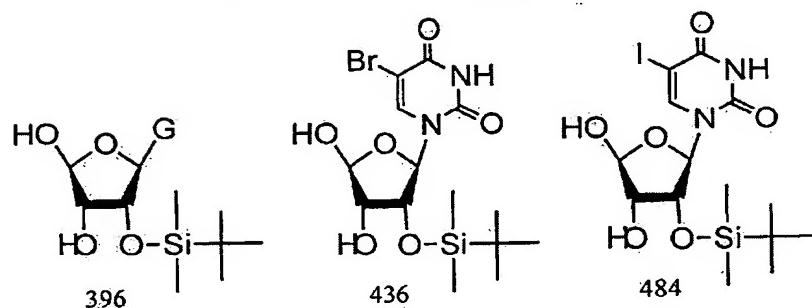
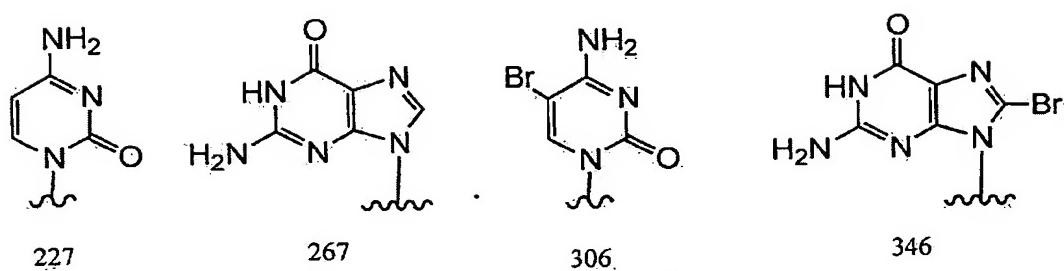
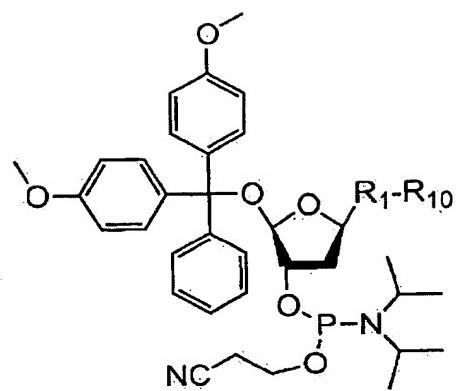
**Fig. 4**

<u>e-tag Reporter</u>	<u>Elution Time on CE, min</u>	<u>Mass</u>
	6.4	778
	7.1	925
	7.3	901
	7.7	994
	8.0	985
	9.25	961

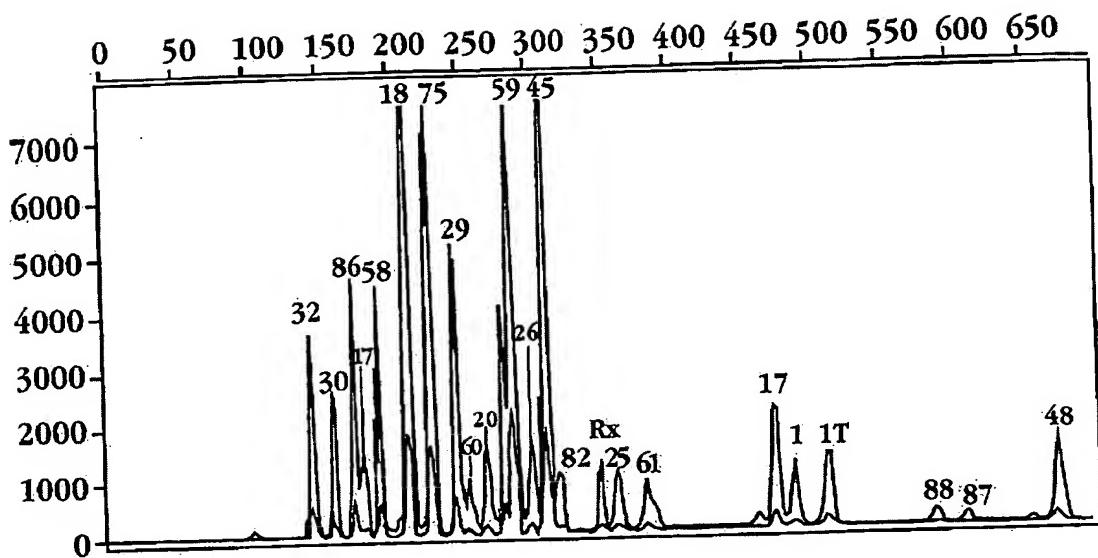
**Fig. 5**

e-tag Reporter	Charge	Elution Time, min
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-C <sub>3</sub> C <sub>3</sub> C <sub>3</sub> C <sub>3</sub> -dC	-8	12.1*
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> -dC	-9	12.7
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> -dC	-8	12.8
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> -dC	-7	13.1
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-C <sub>3</sub> C <sub>3</sub> C <sub>9</sub> -dC	-6	13.0
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-C <sub>6</sub> C <sub>6</sub> C <sub>6</sub> -dC	-6	13.4
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-C <sub>3</sub> C <sub>3</sub> -dC	-5	12.8*
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-C <sub>3</sub> C <sub>9</sub> -dC	-5	13.2*
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-C <sub>9</sub> C <sub>9</sub> -dC	-5	14.8
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-TTdT	-6	17.3
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-TTdT	-5	17.0
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-C <sub>9</sub> -dT	-4	15.2*
O-C(=O)-Fluorescein HN-(CH <sub>2</sub> ) <sub>5</sub> -O-P-O-TdT	-4	16.5

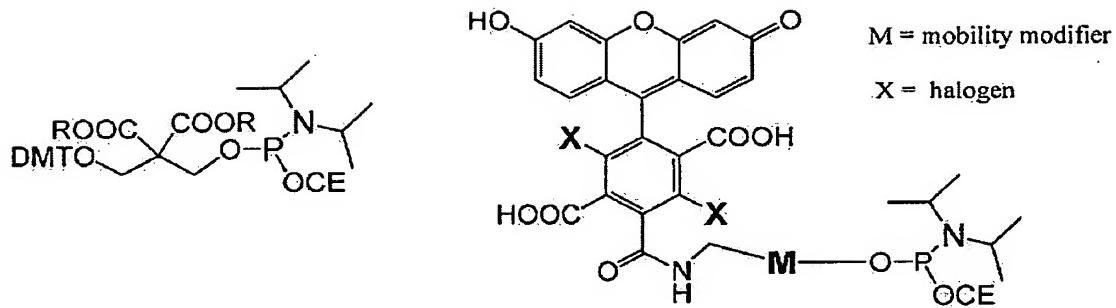
Fig. 6



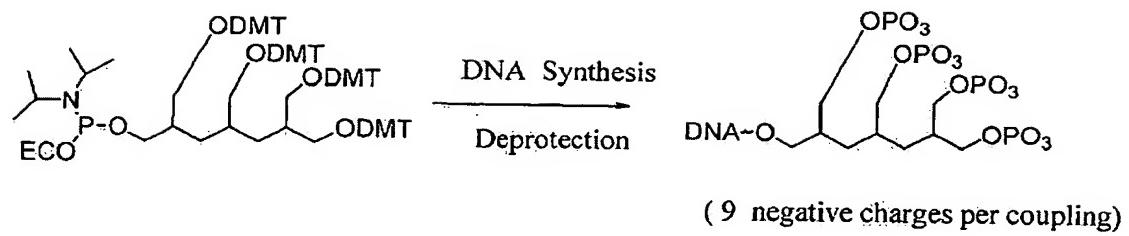
**Fig. 7**



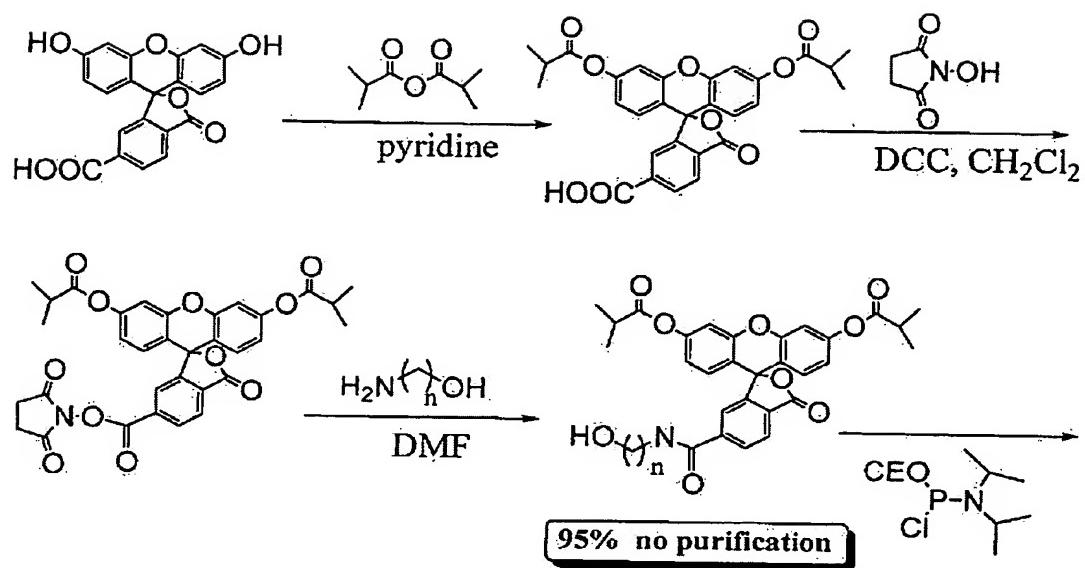
**Fig. 8**



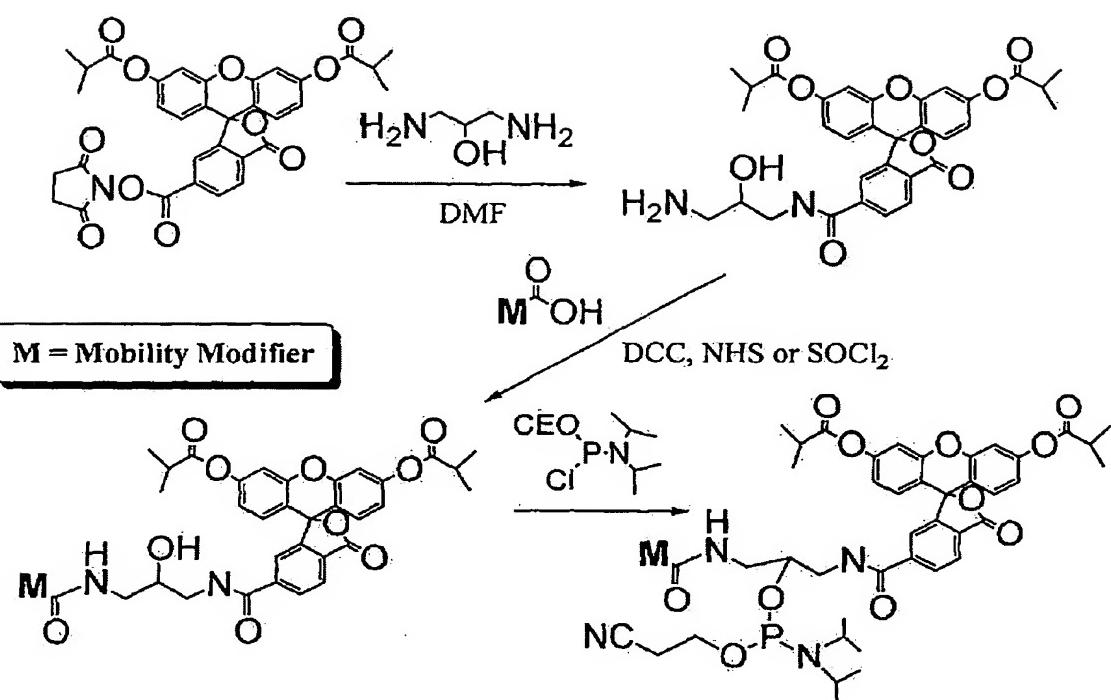
**Fig. 9**



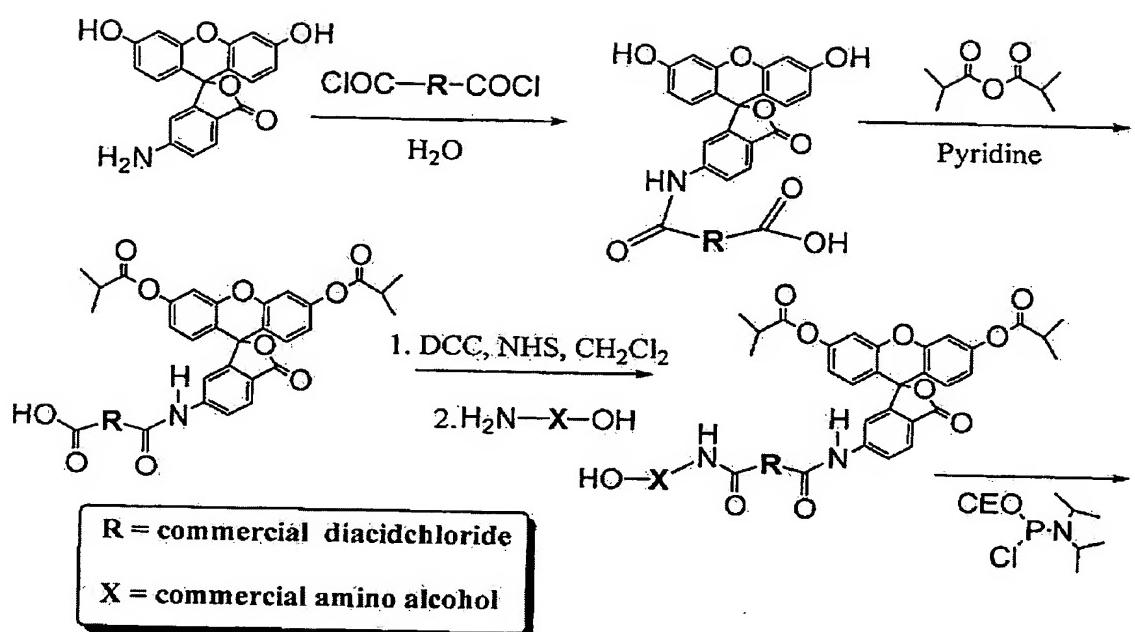
**Fig. 10**



**Fig. 11**



**Fig. 12**



**Fig. 13**

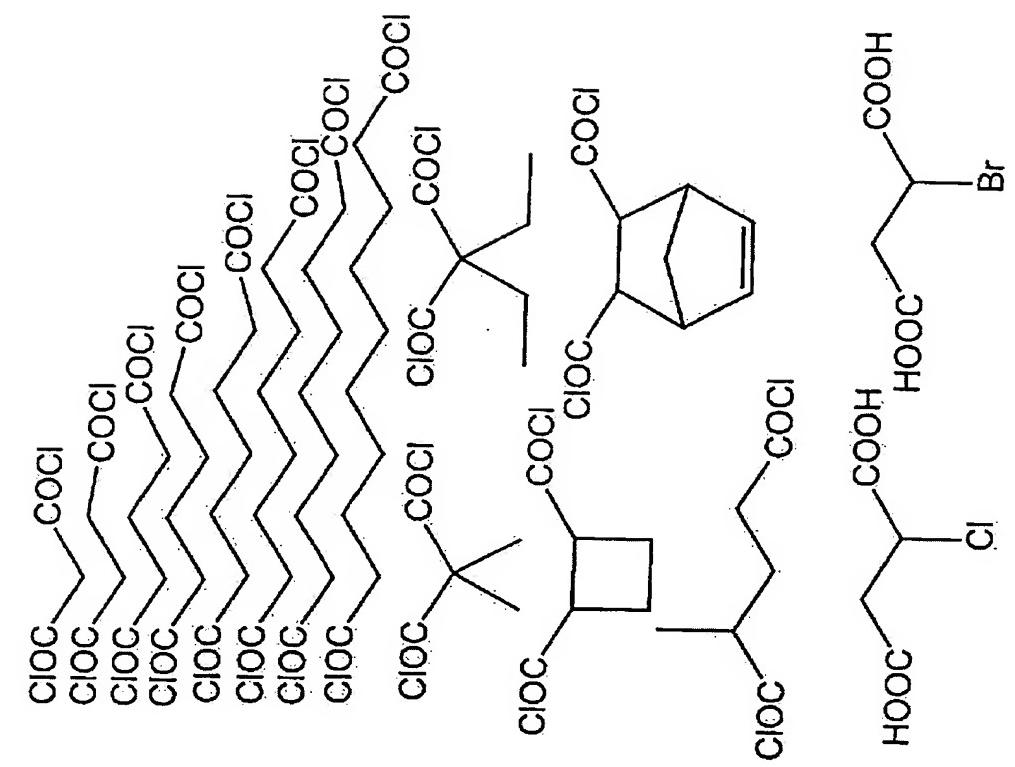
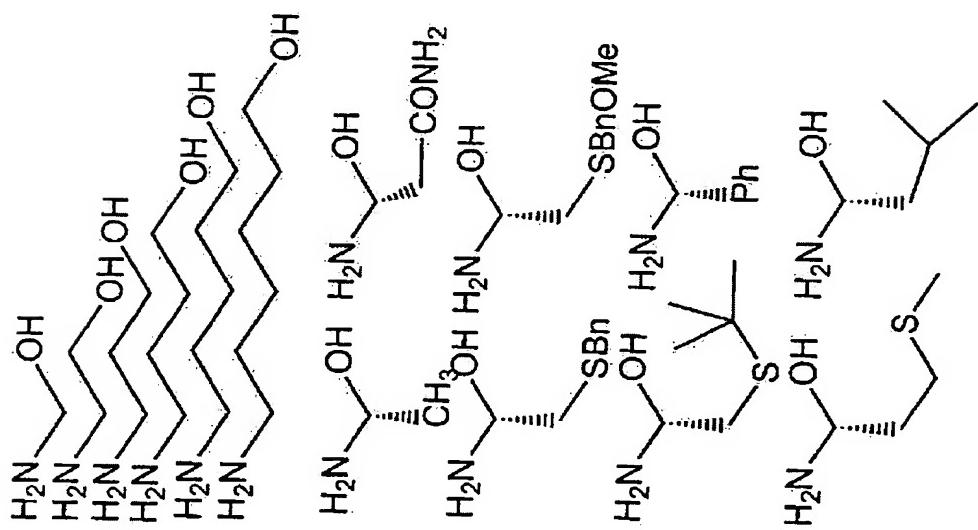
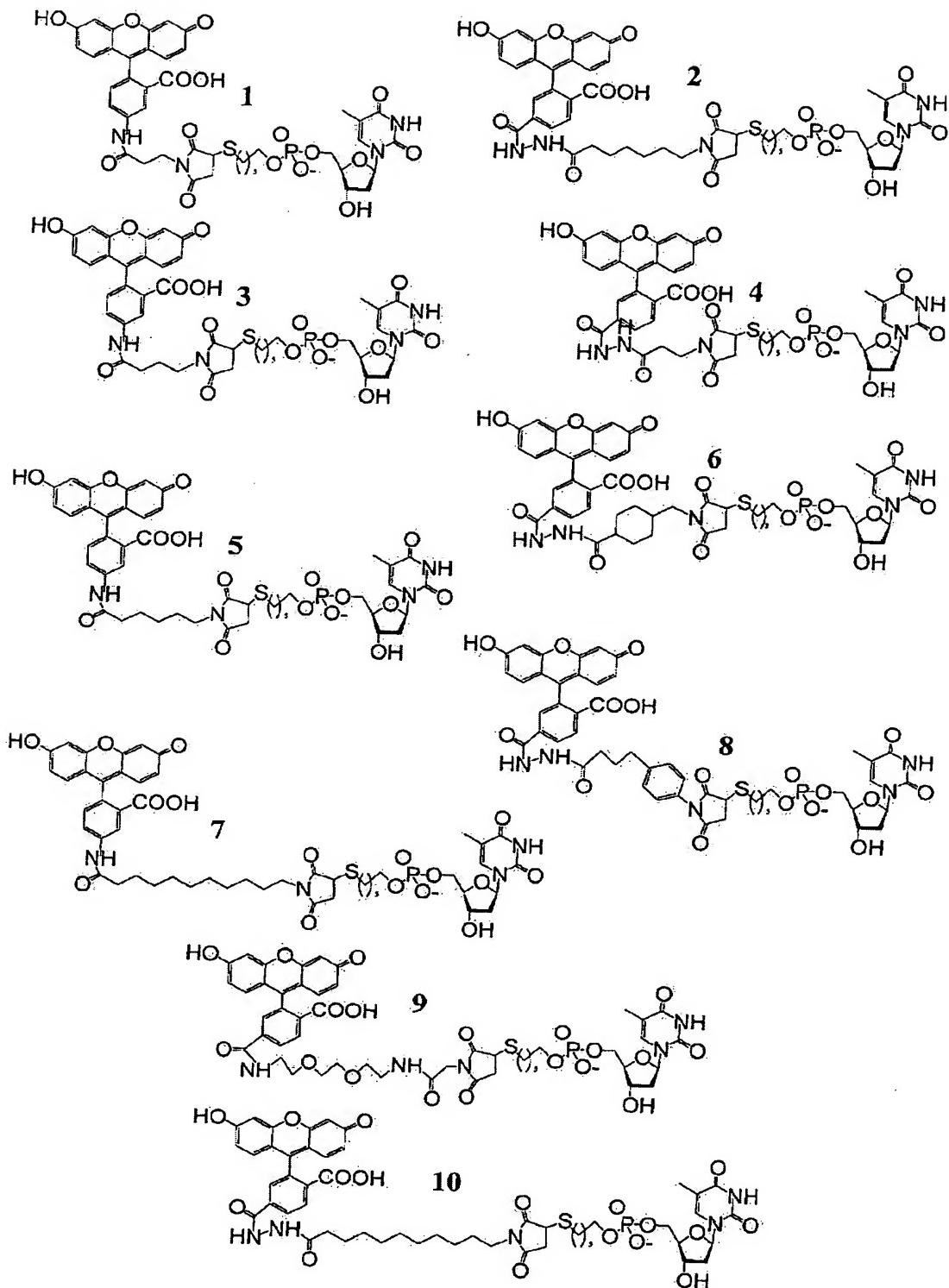
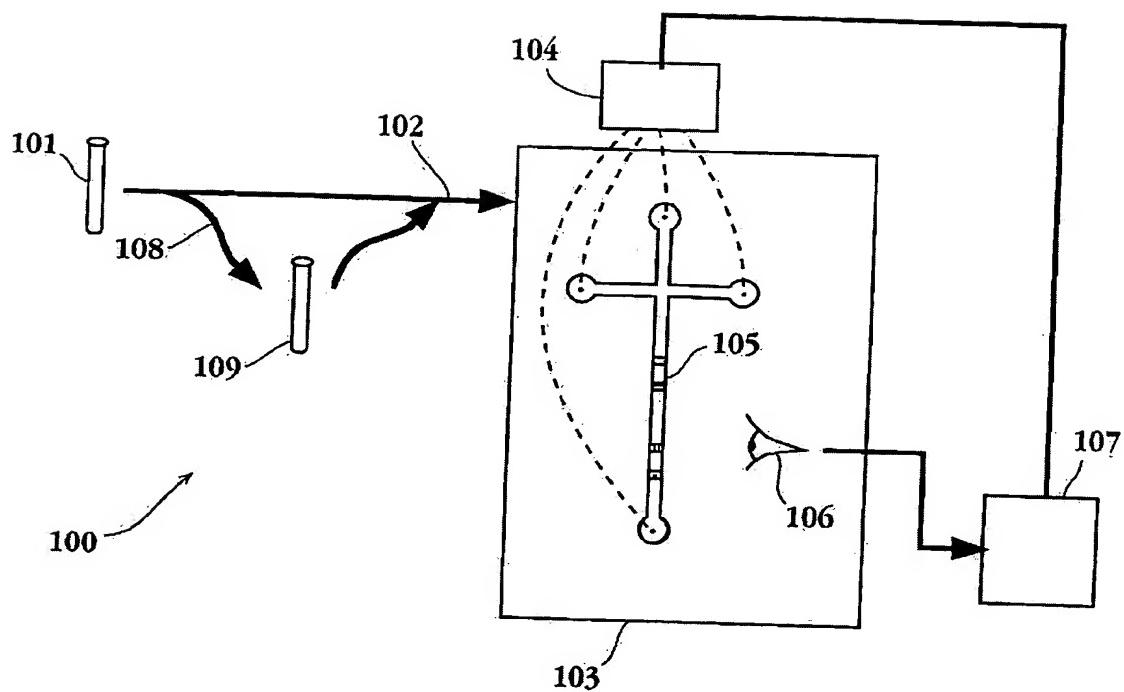


Fig. 14

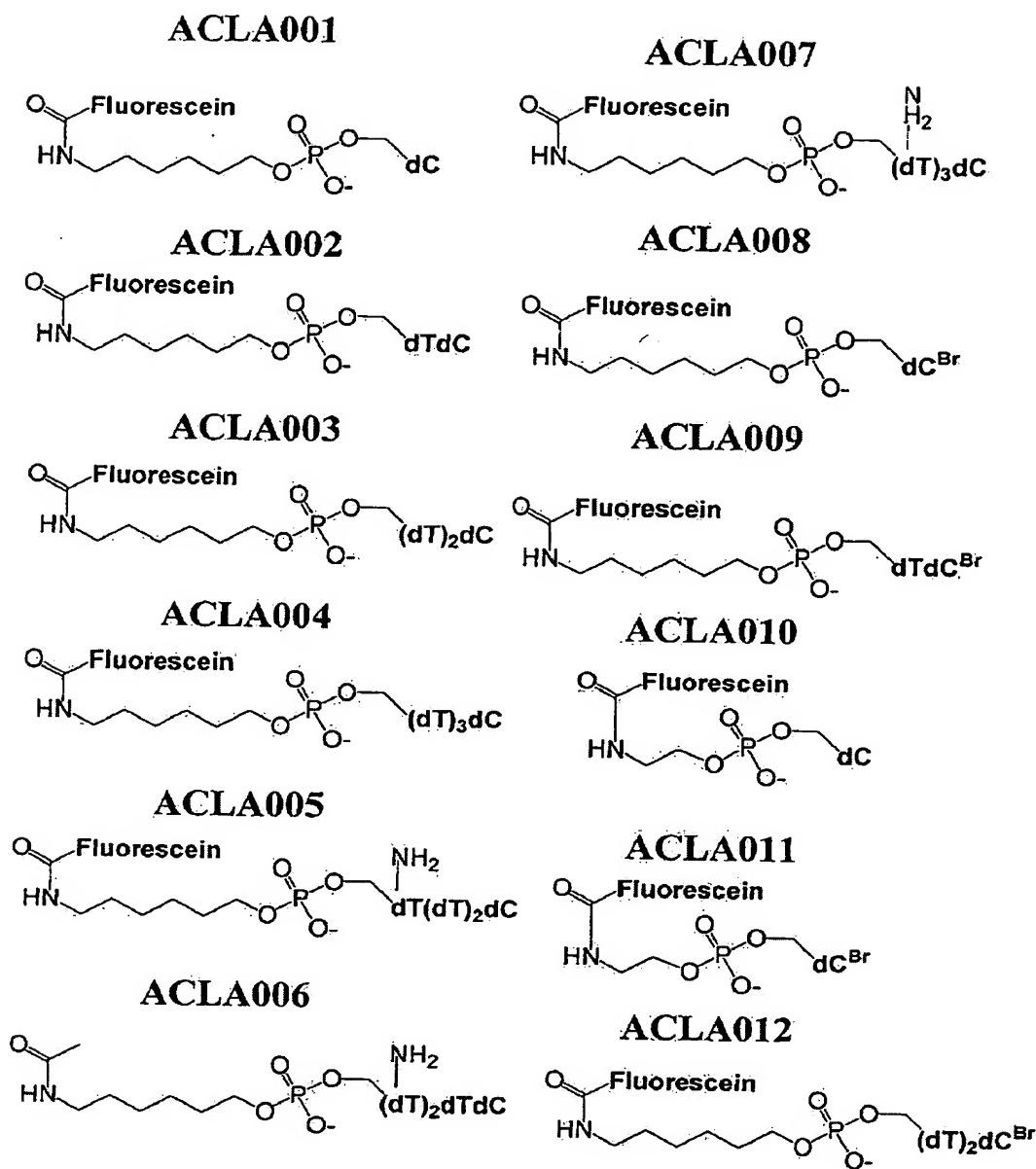




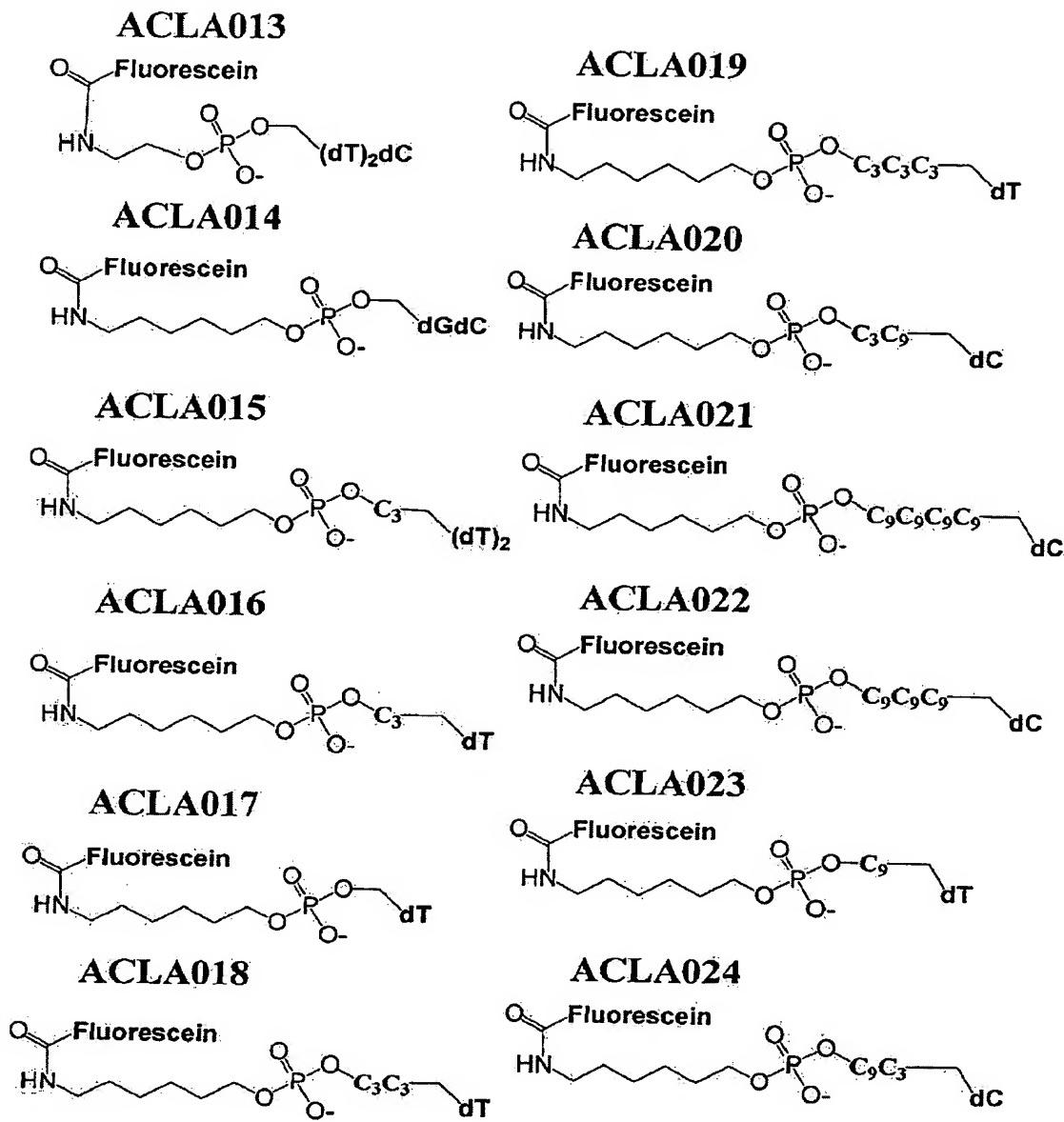
**Fig. 15**



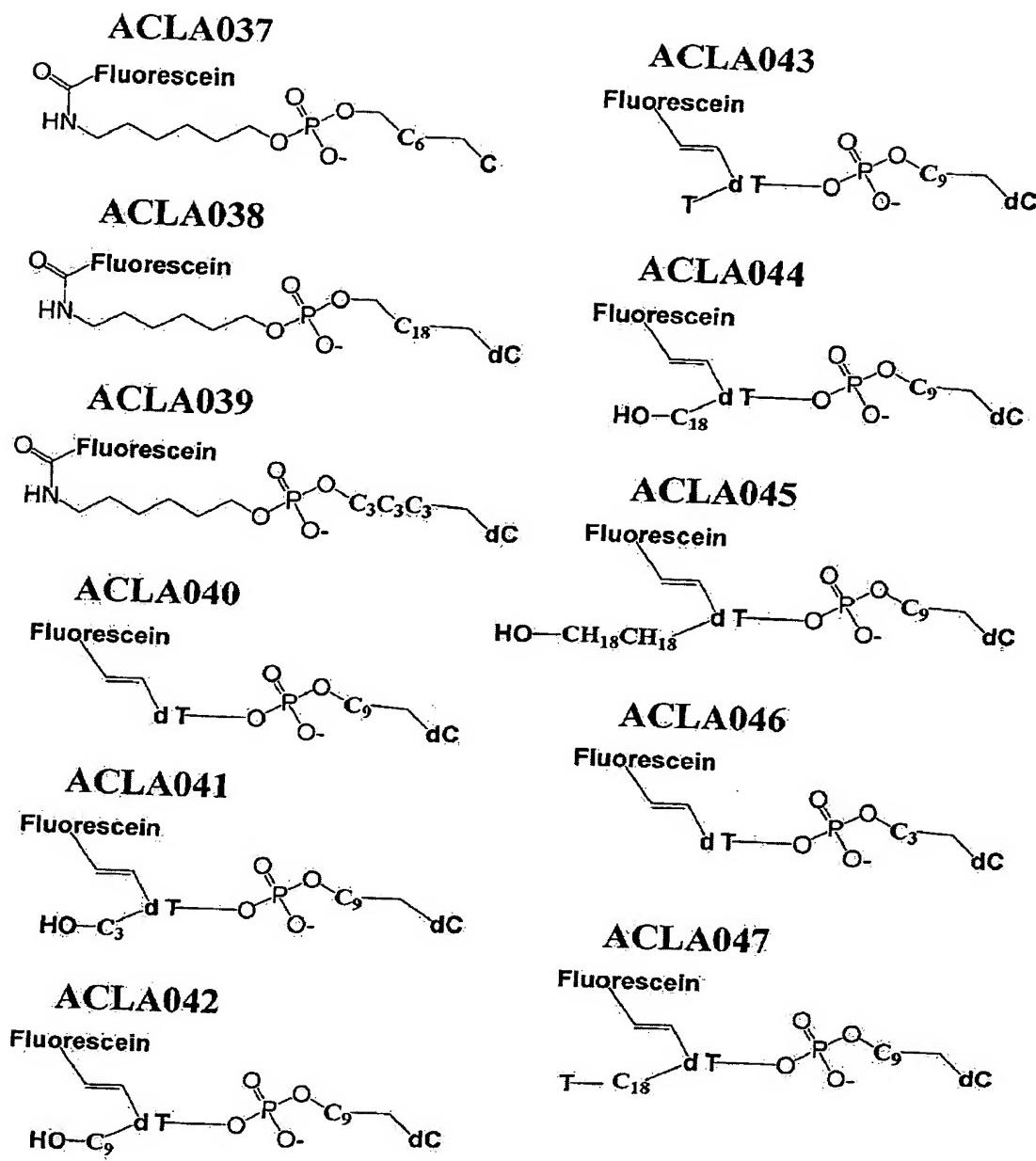
**Fig. 16**



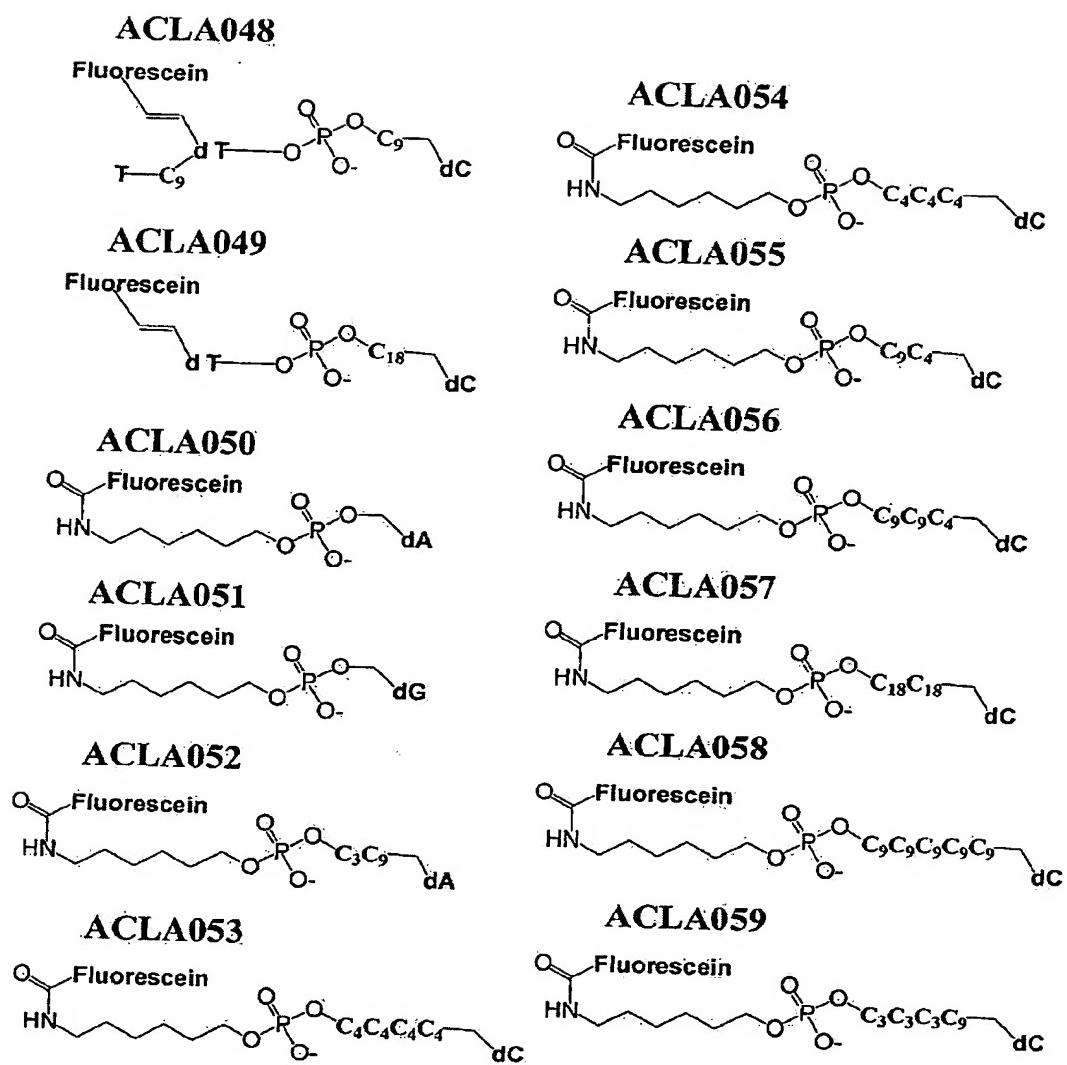
**Fig. 17A**



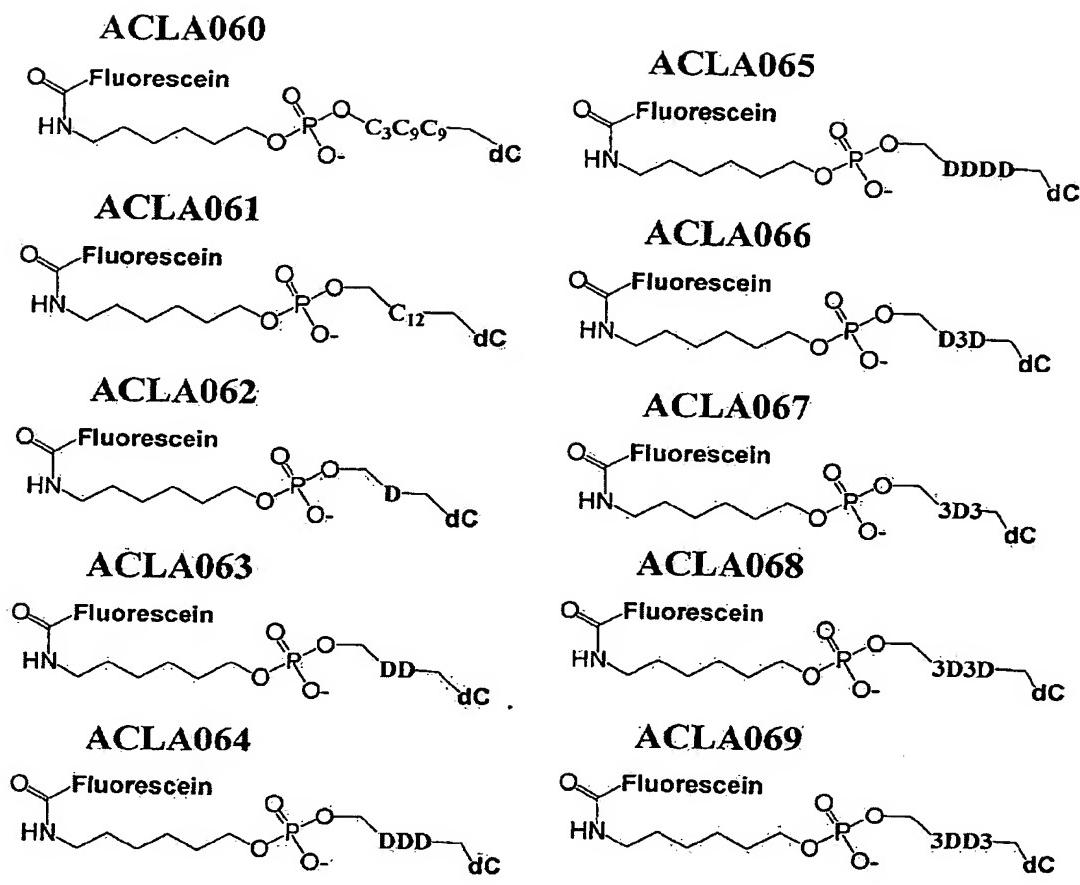
**Fig. 17B**



**Fig. 17D**

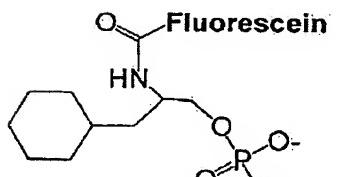


**Fig. 17E**

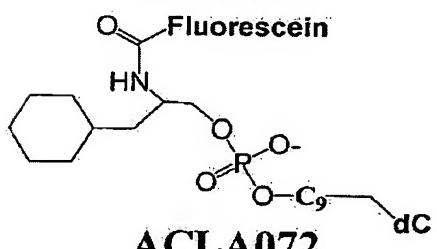


**Fig. 17F**

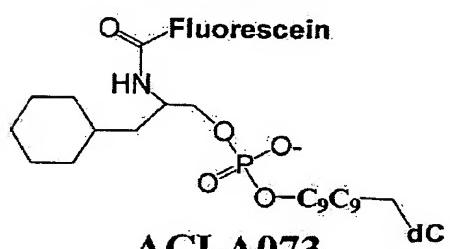
**ACLA070**



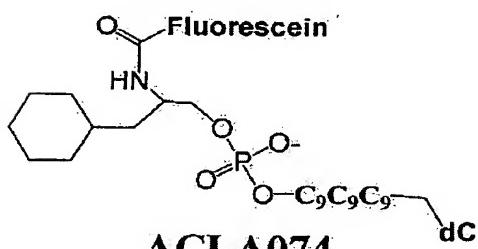
**ACLA071**



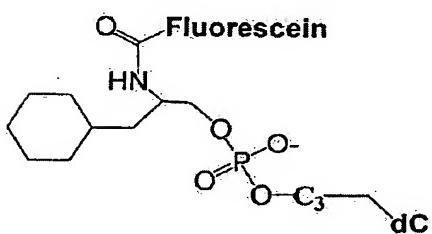
**ACLA072**



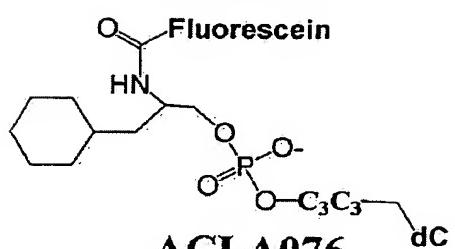
**ACLA073**



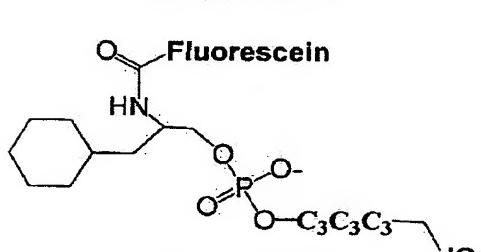
**ACLA074**



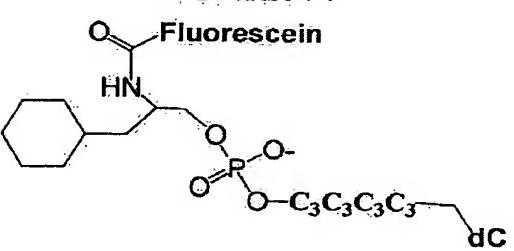
**ACLA075**



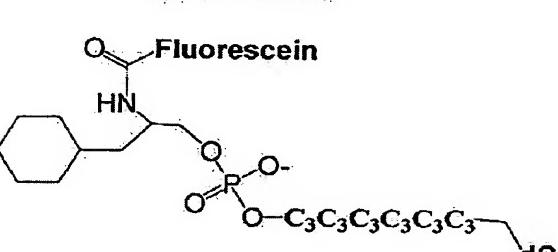
**ACLA076**



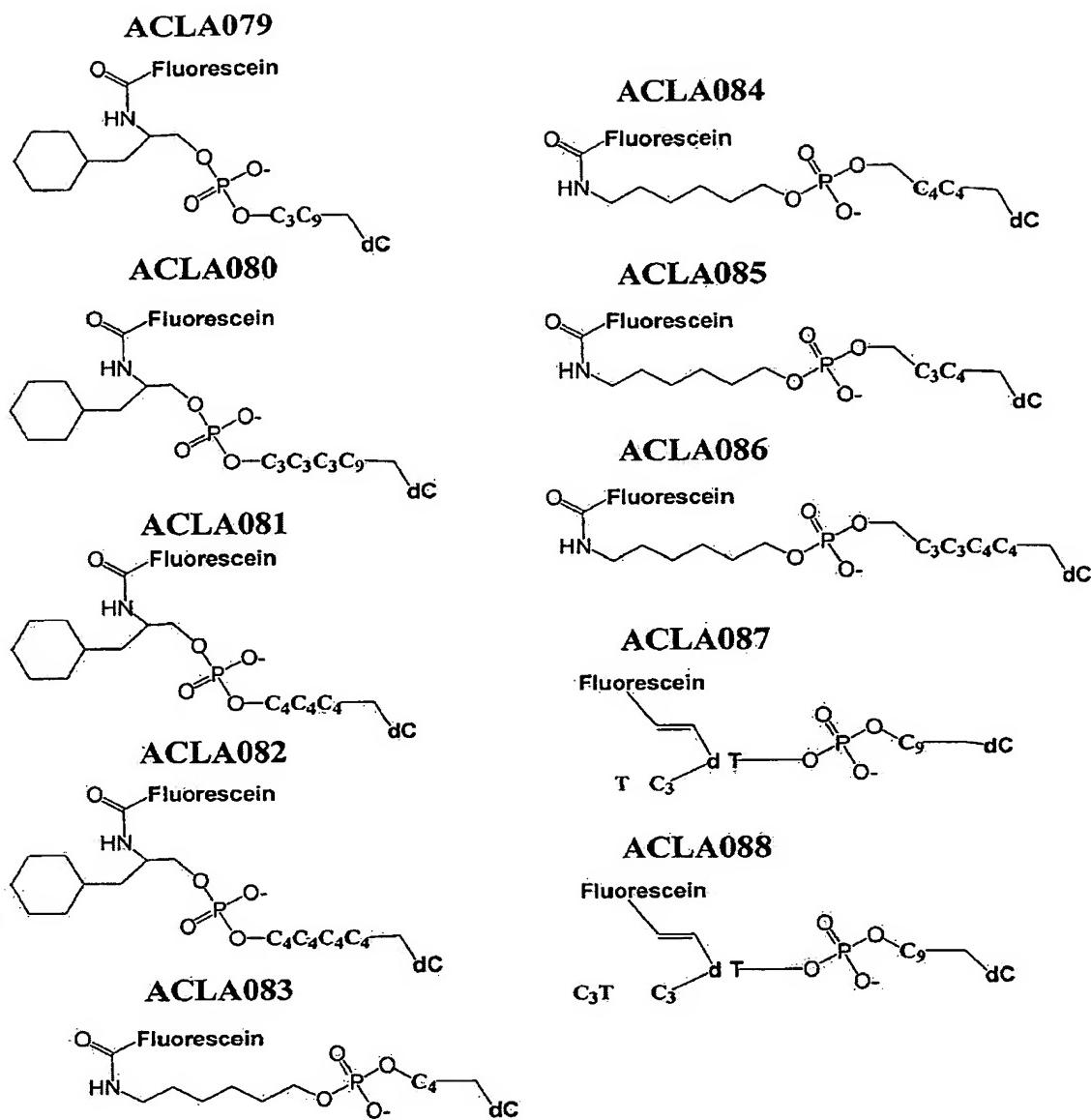
**ACLA077**



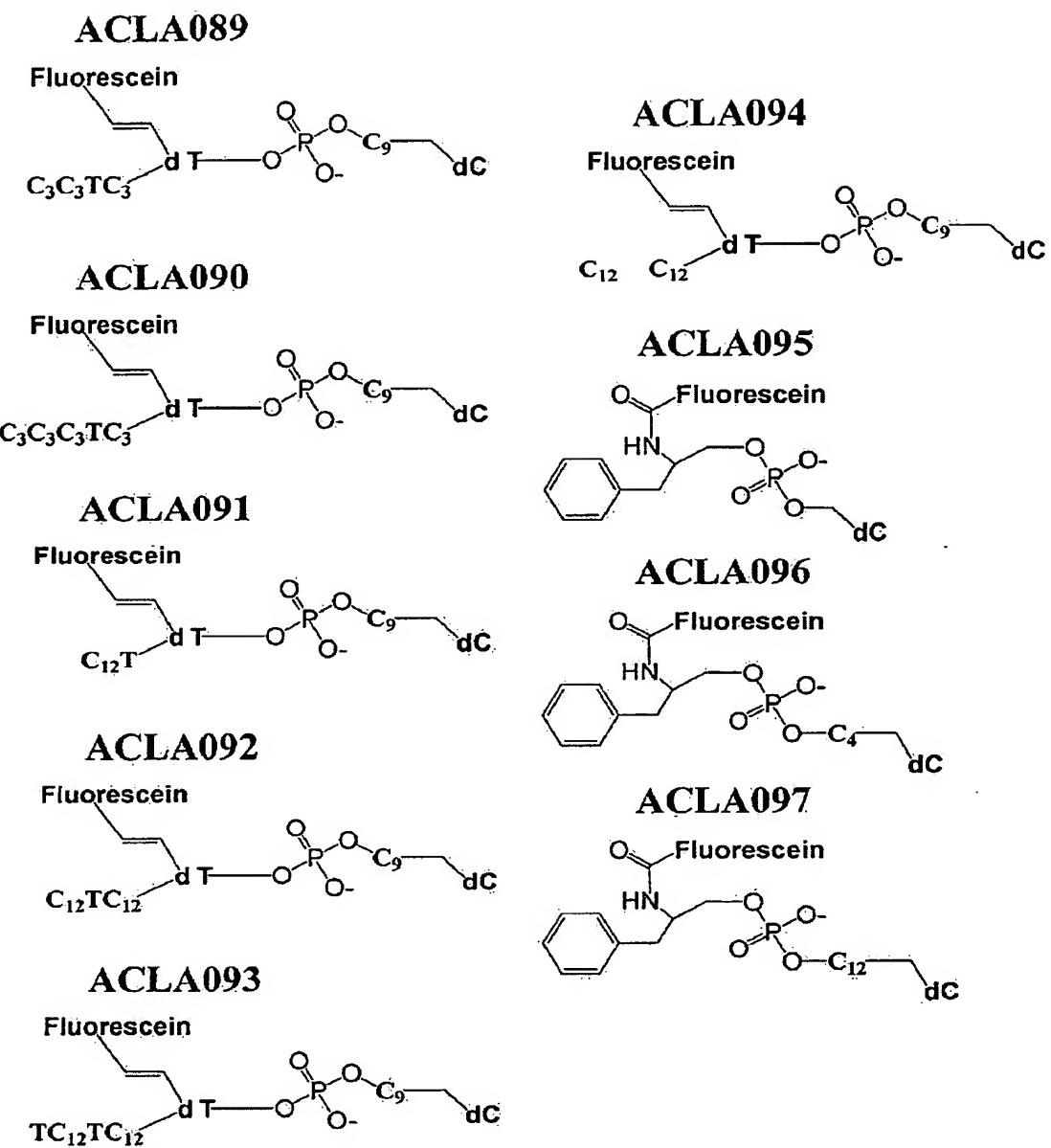
**ACLA078**



**Fig. 17G**

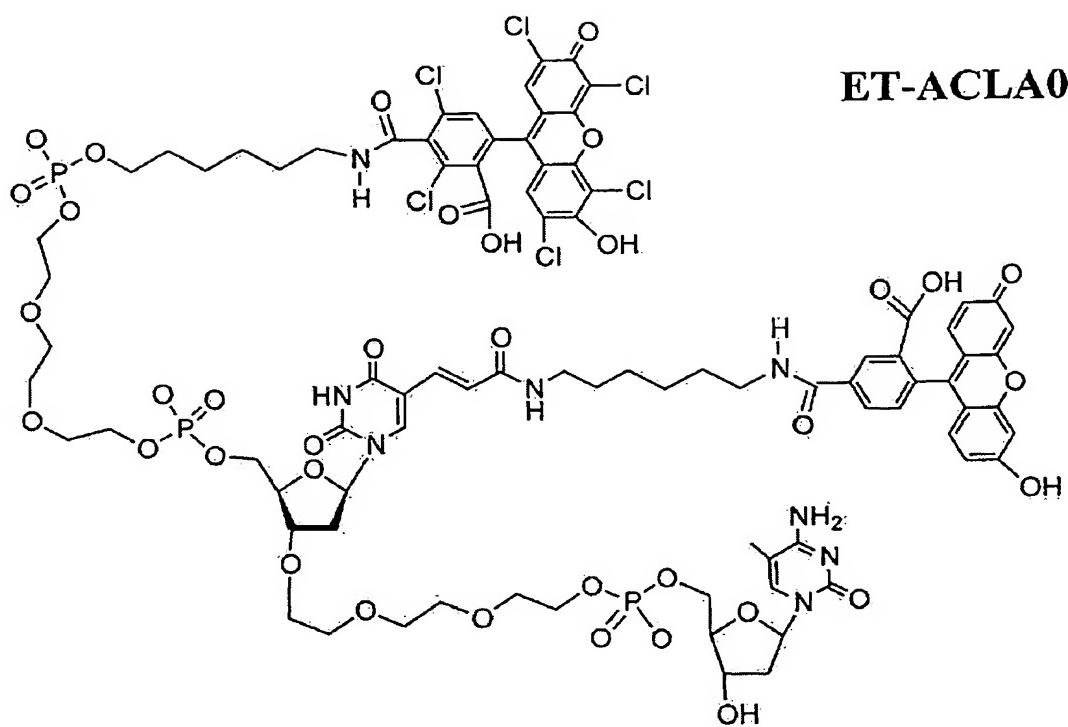


**Fig. 17H**

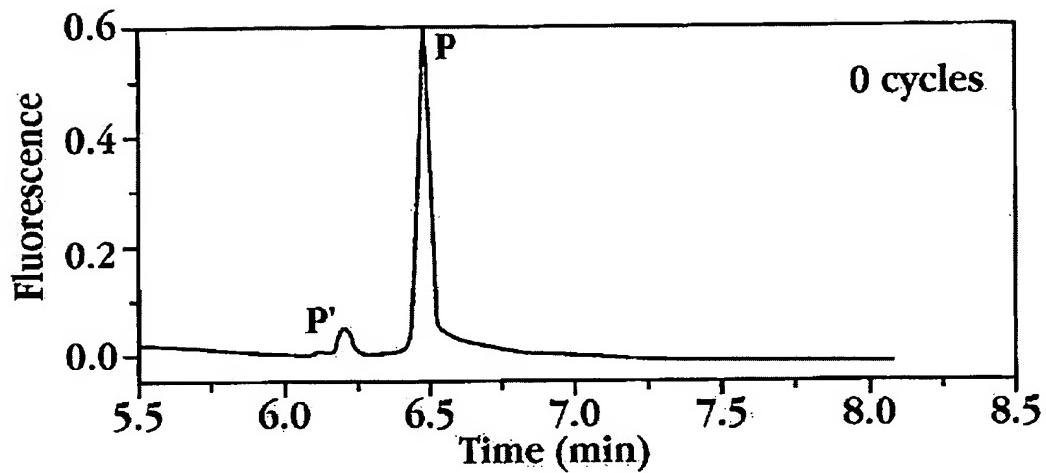


**Fig. 17I**

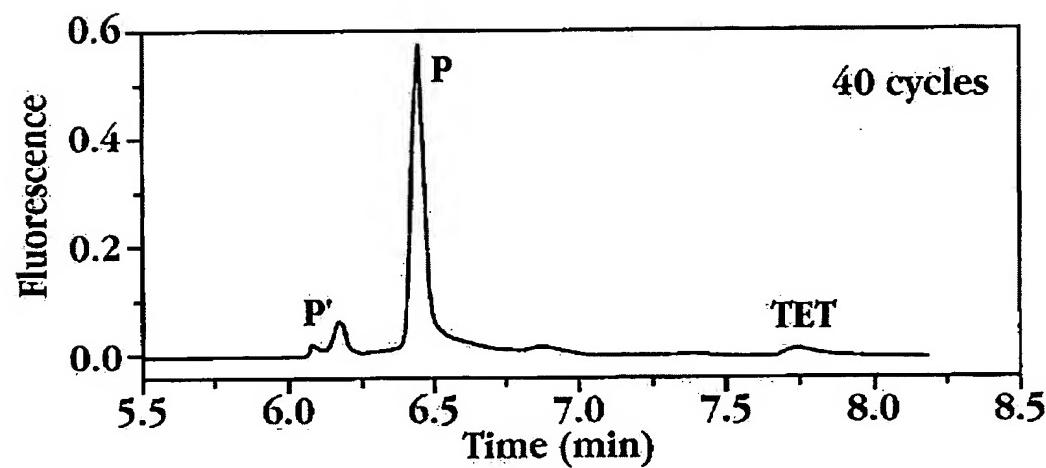
**ET-ACLA001**



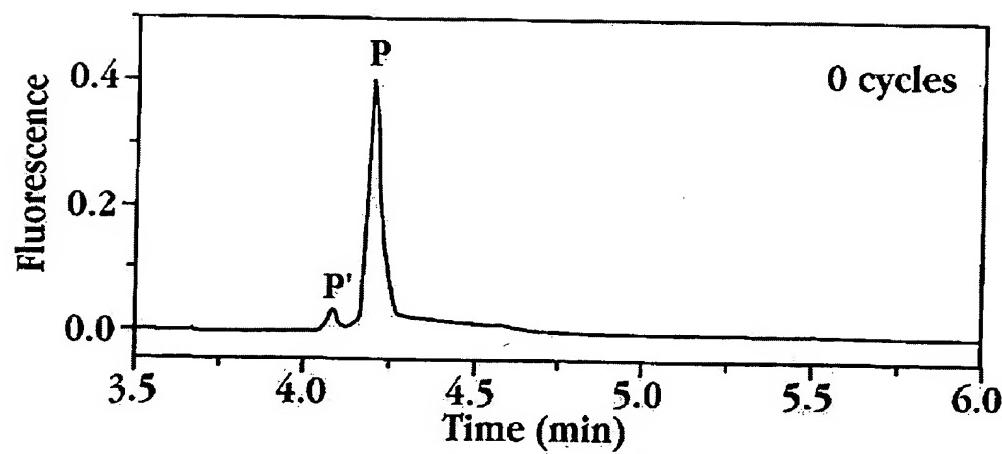
**Fig. 17J**



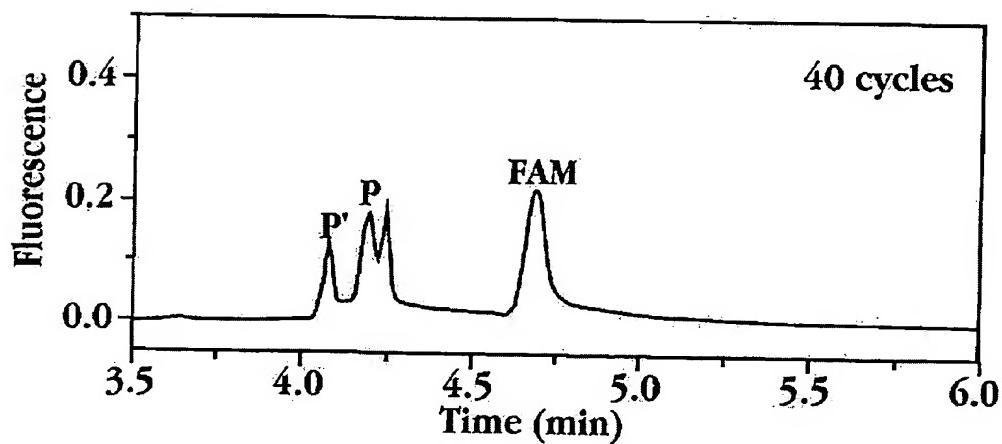
**Fig. 18A**



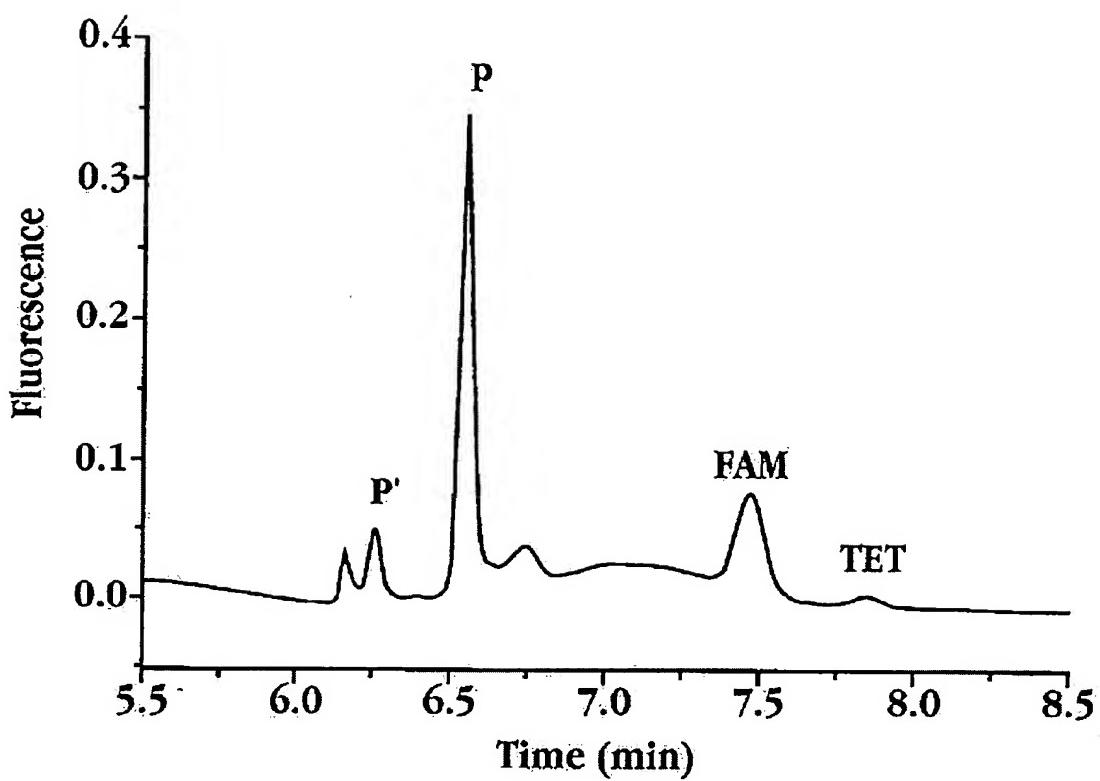
**Fig. 18B**



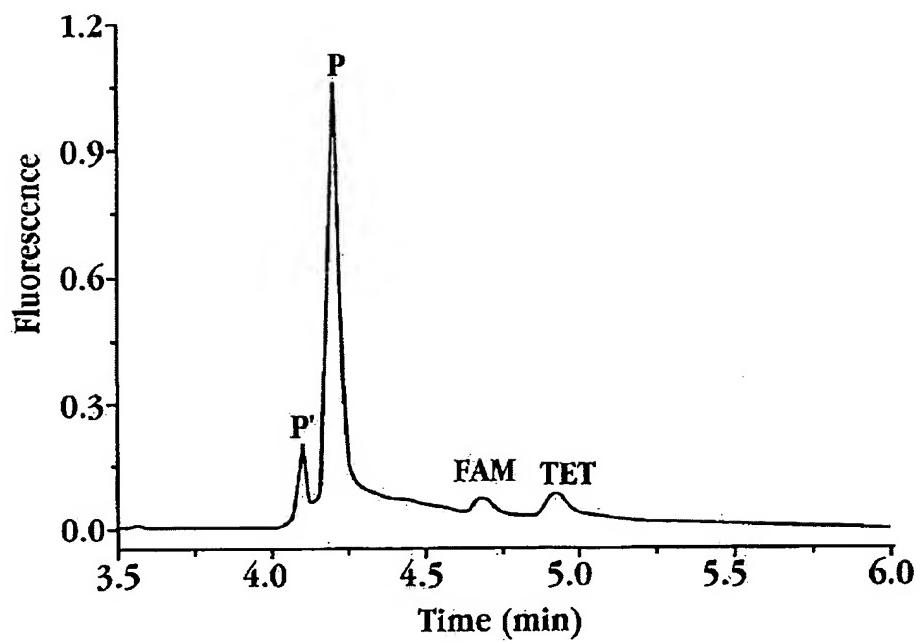
**Fig. 19A**



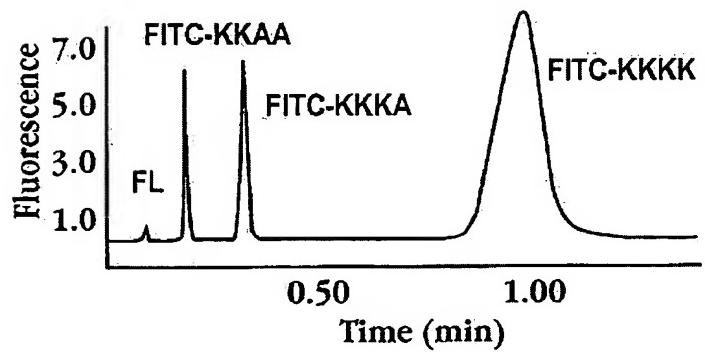
**Fig. 19B**



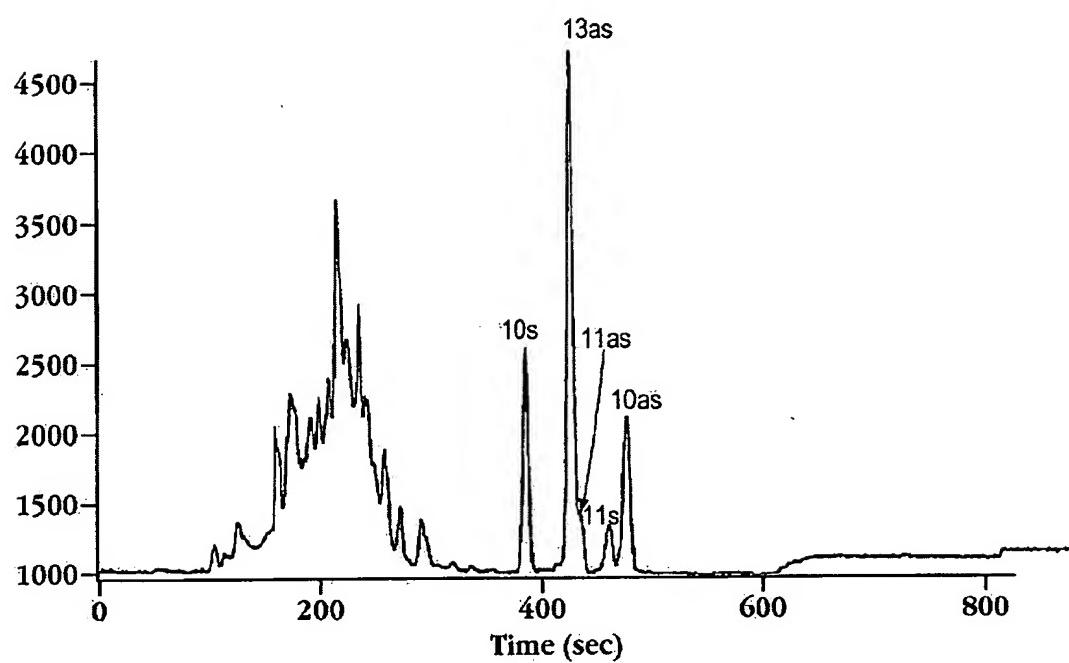
**Fig. 20**



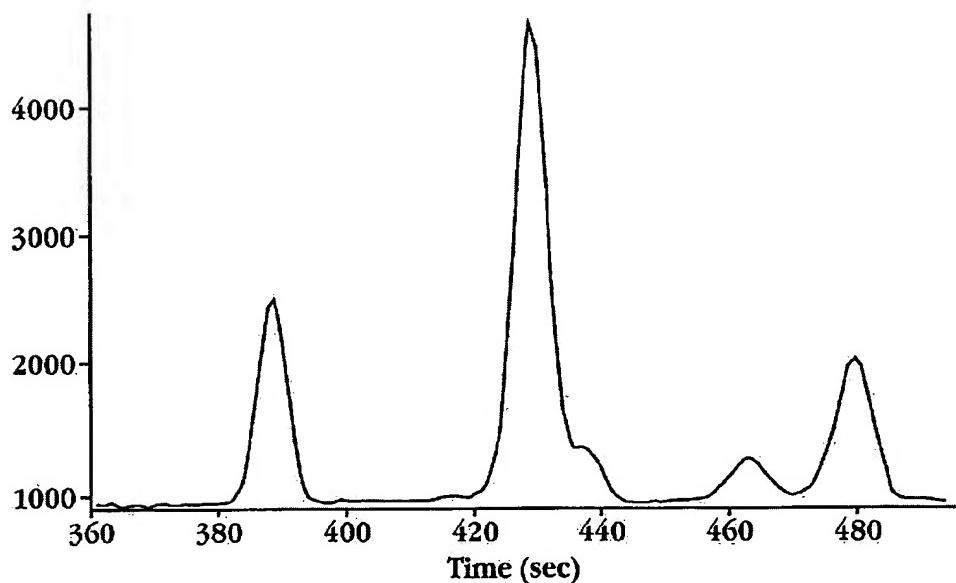
**Fig. 21**



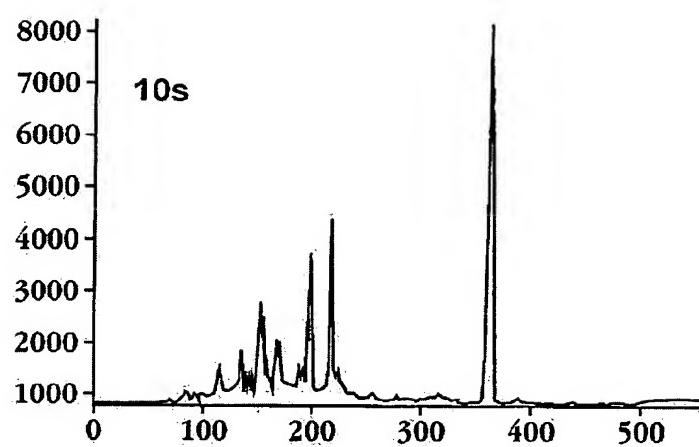
**Fig. 22**



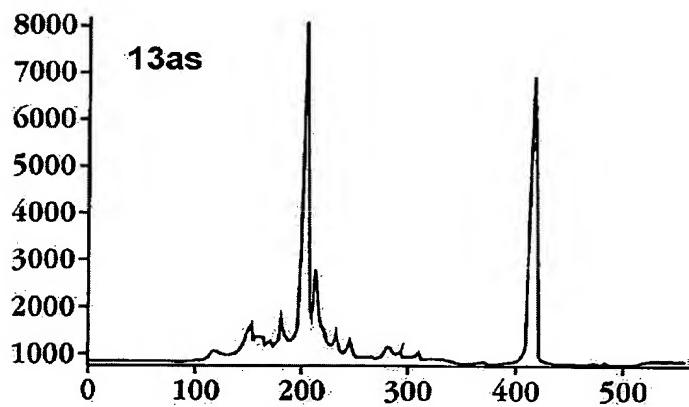
**Fig. 23A**



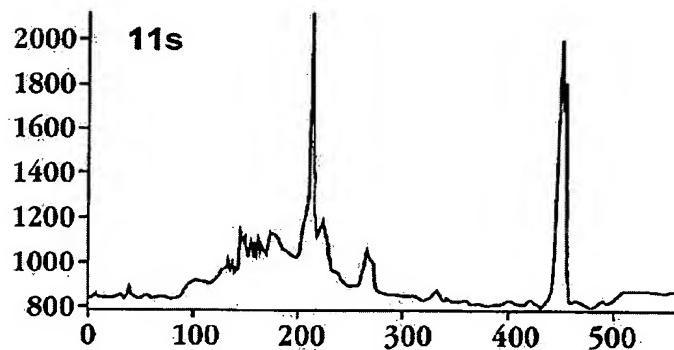
**Fig. 23B**



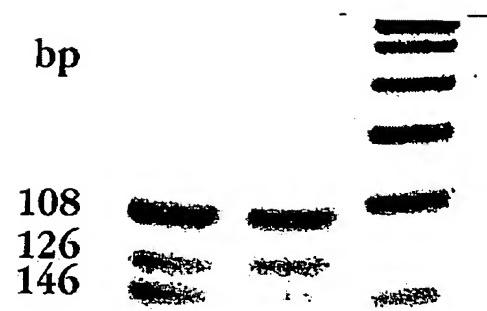
**Fig. 23C**



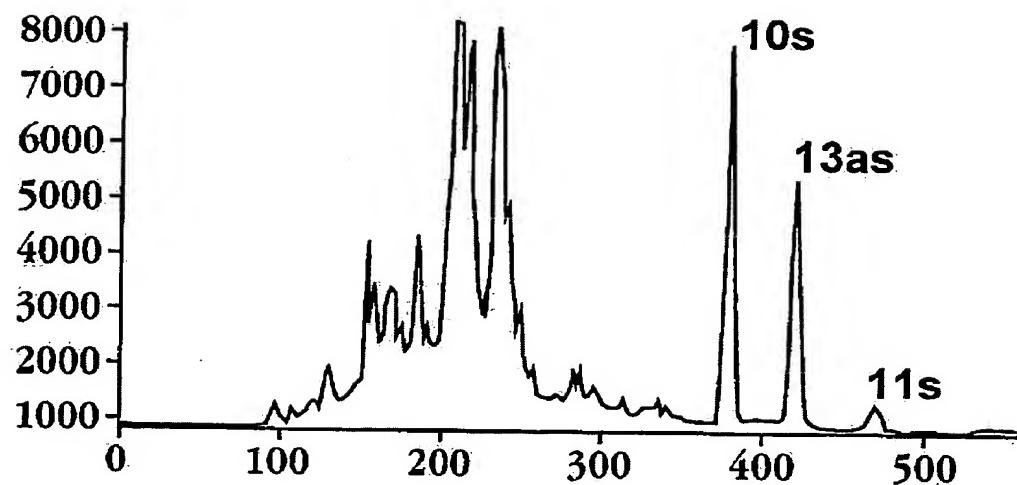
**Fig. 23D**



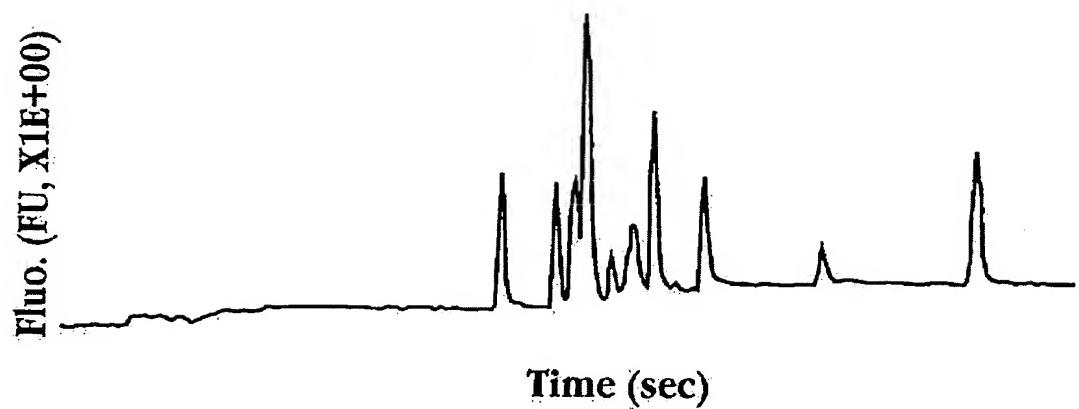
**Fig. 23E**



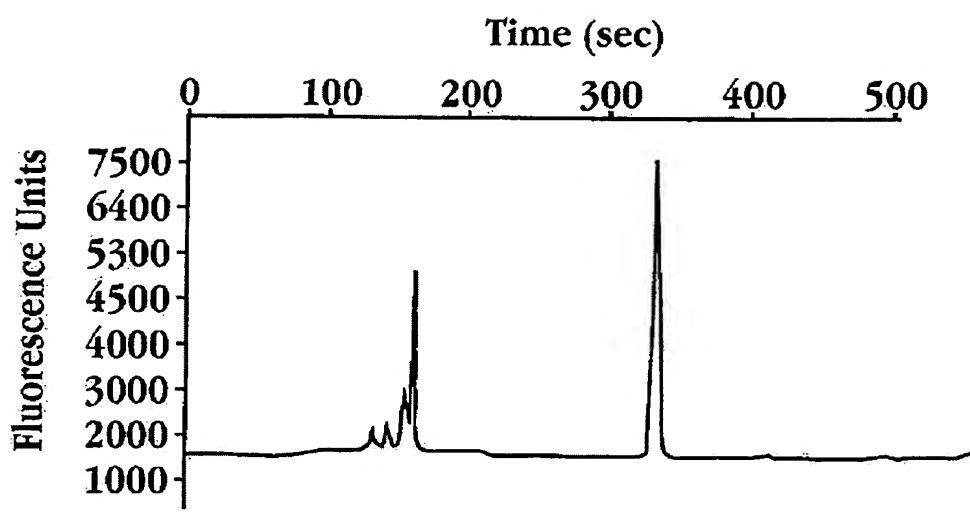
**Fig. 23F**



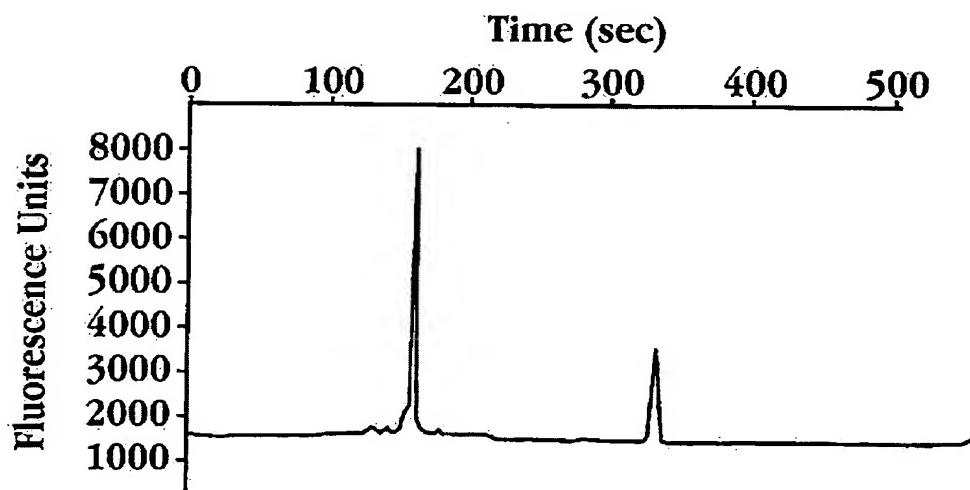
**Fig. 23G**



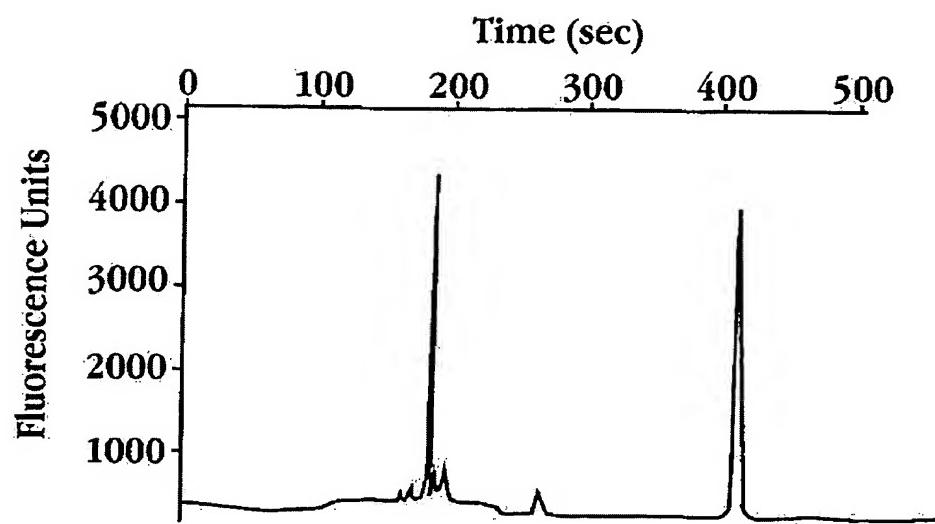
**Fig. 24**



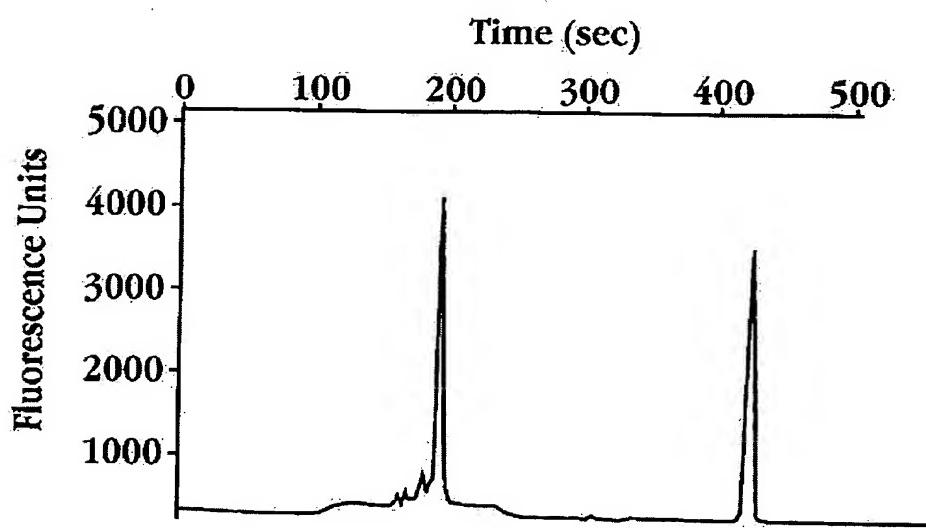
**Fig. 25A**



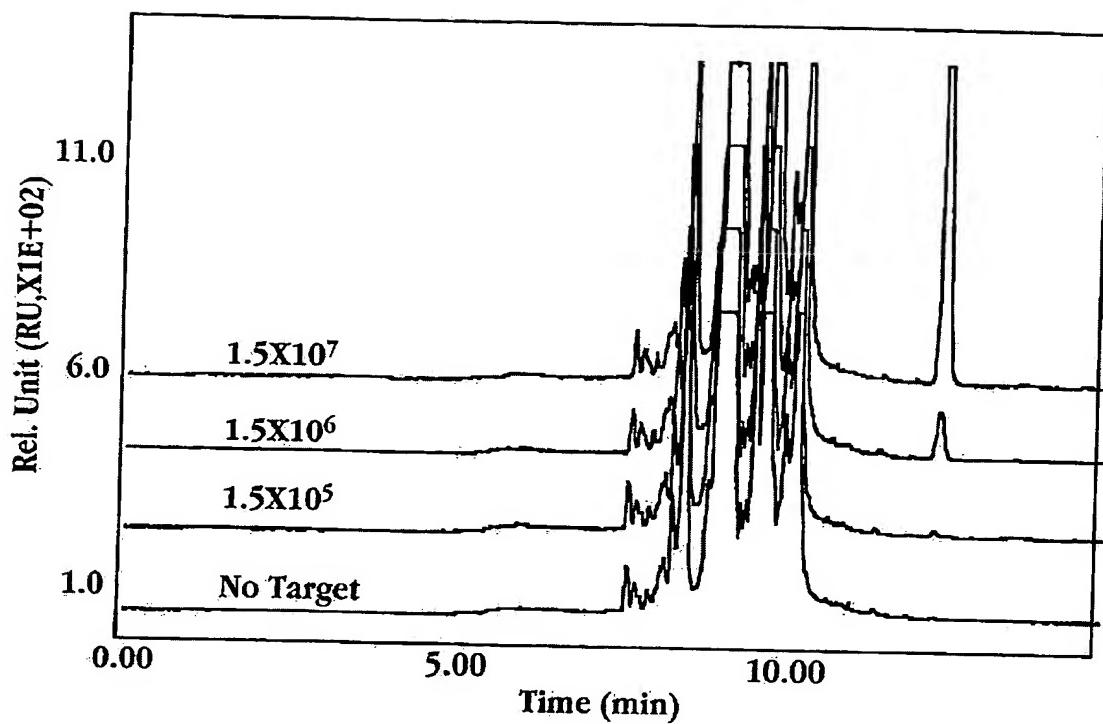
**Fig. 25B**



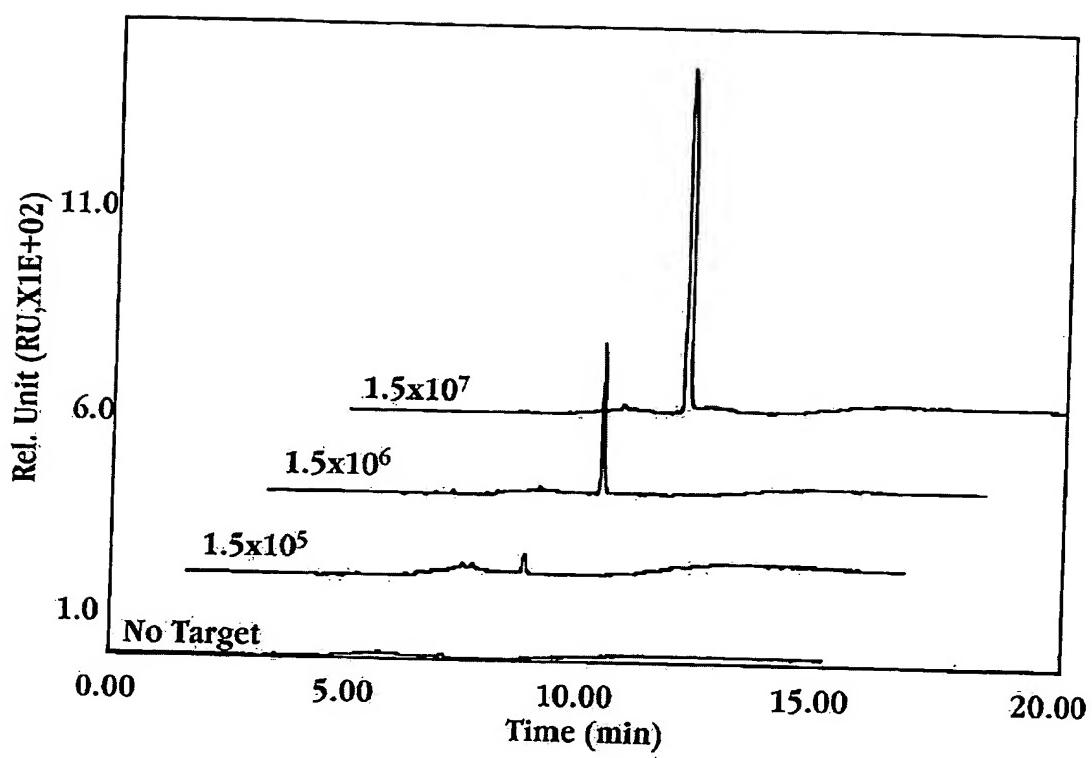
**Fig. 25C**



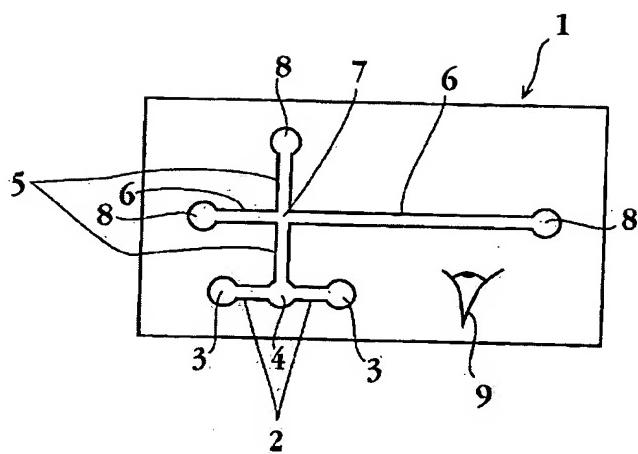
**Fig. 25D**



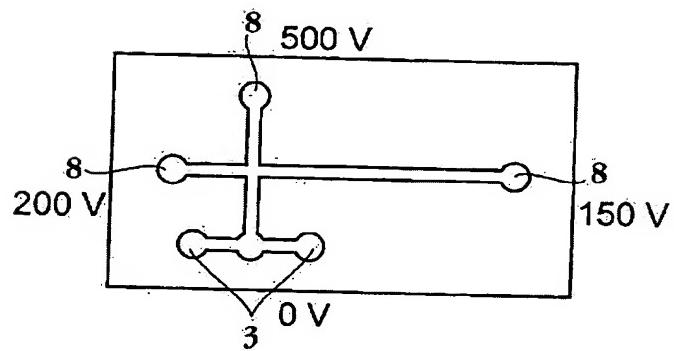
**Fig. 26**



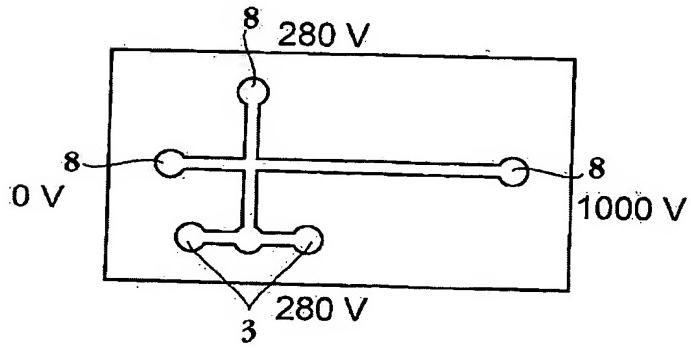
**Fig. 27**



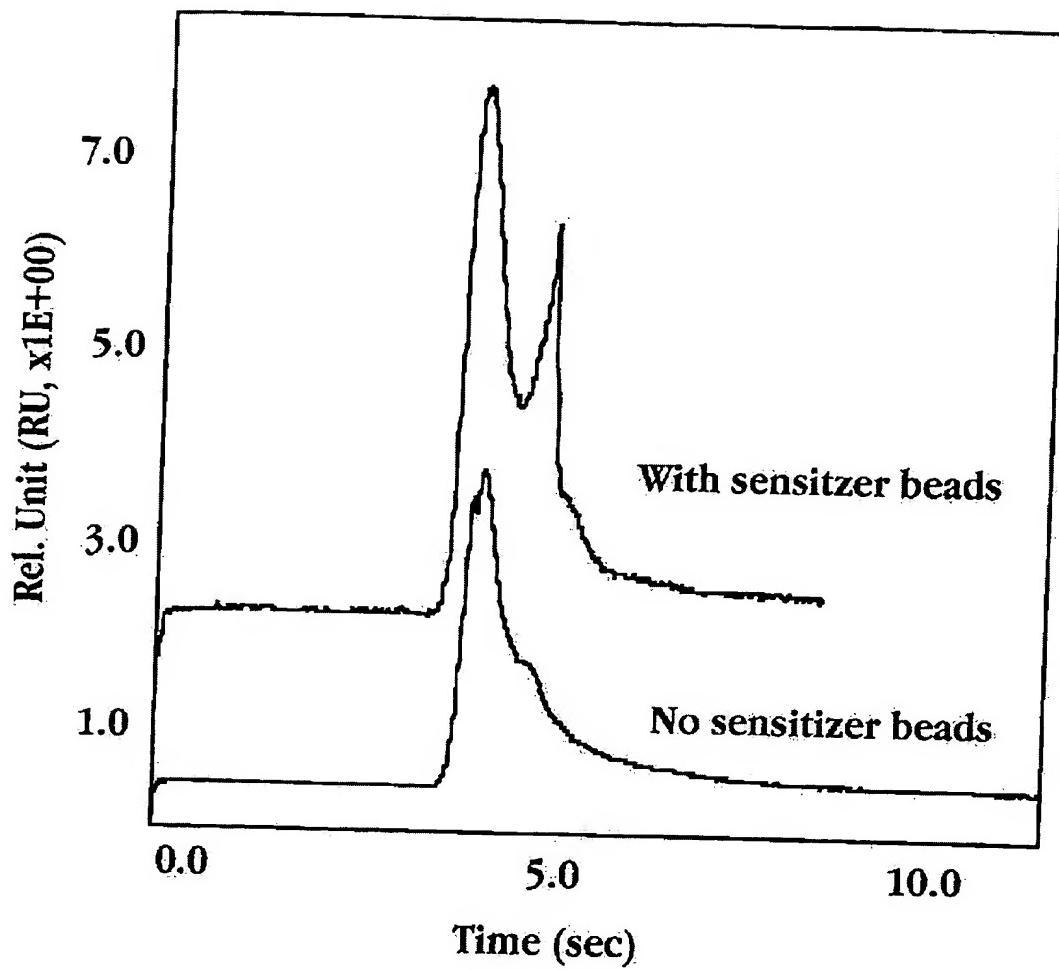
**Fig. 28A**



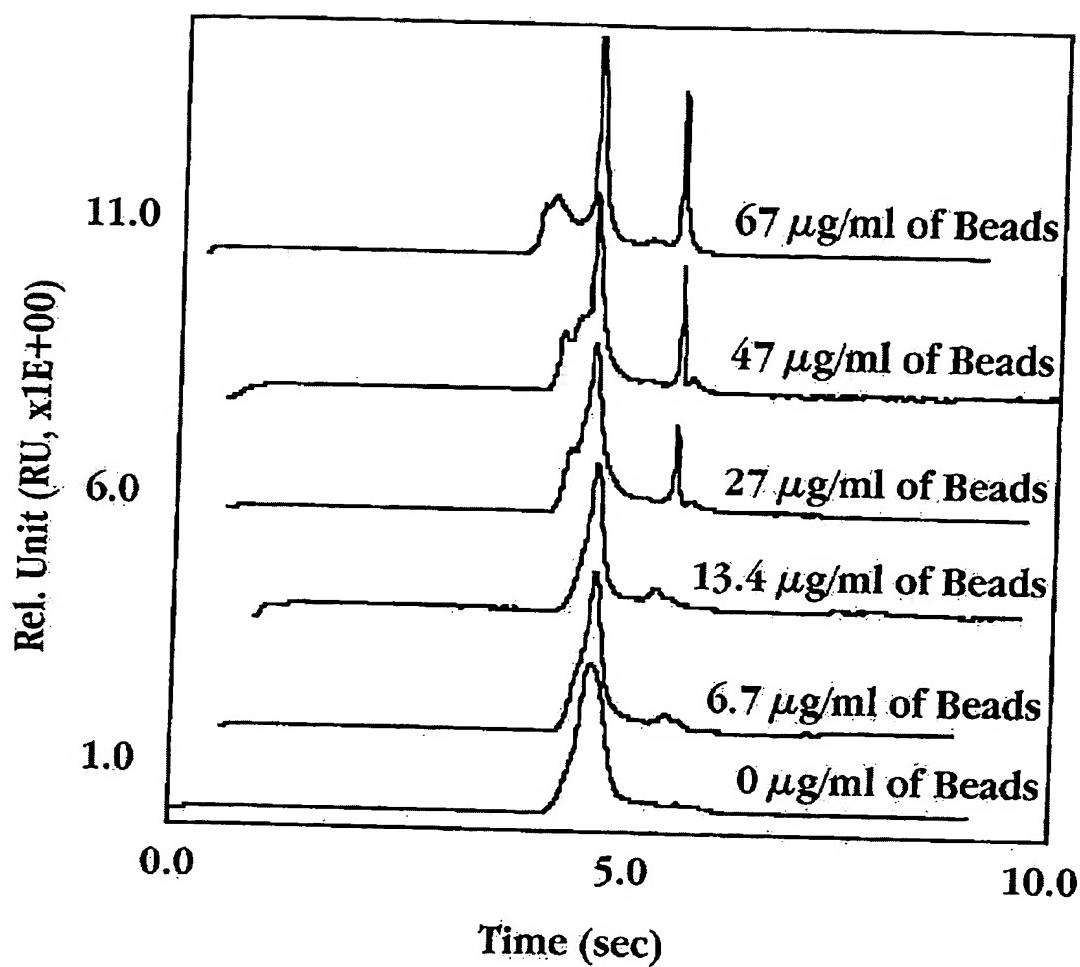
**Fig. 28B**



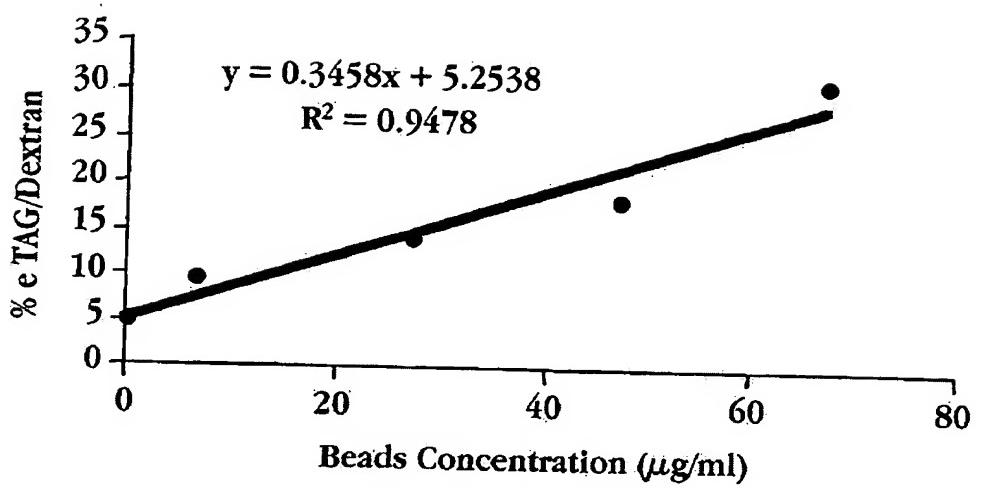
**Fig. 28C**



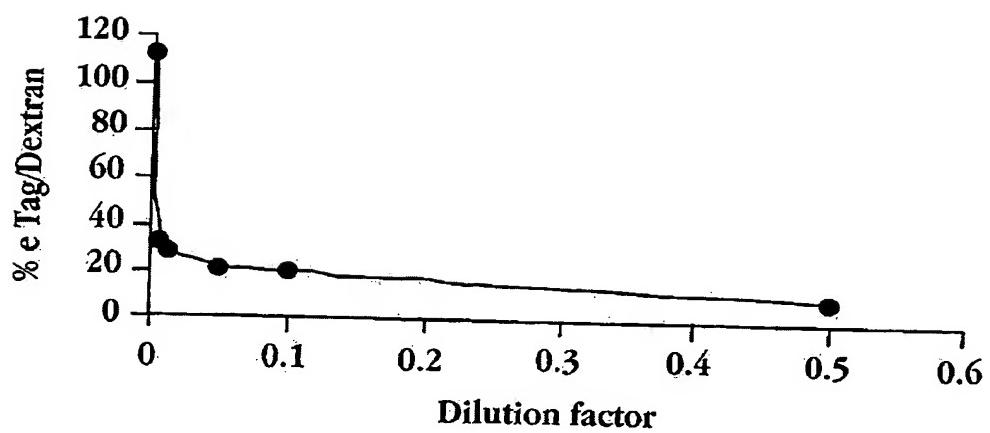
**Fig. 29**



**Fig. 30**



**Fig. 31**



**Fig. 32**

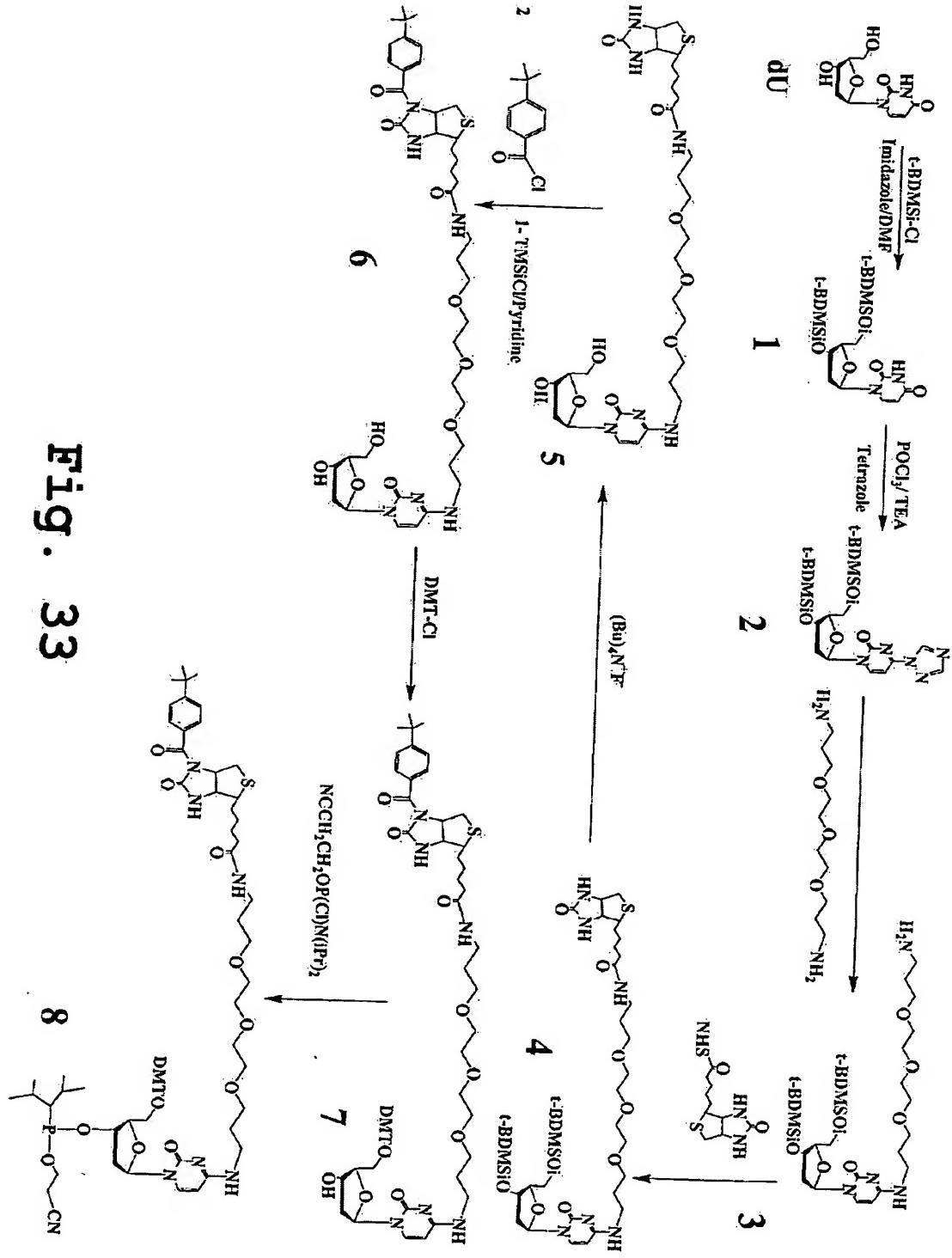
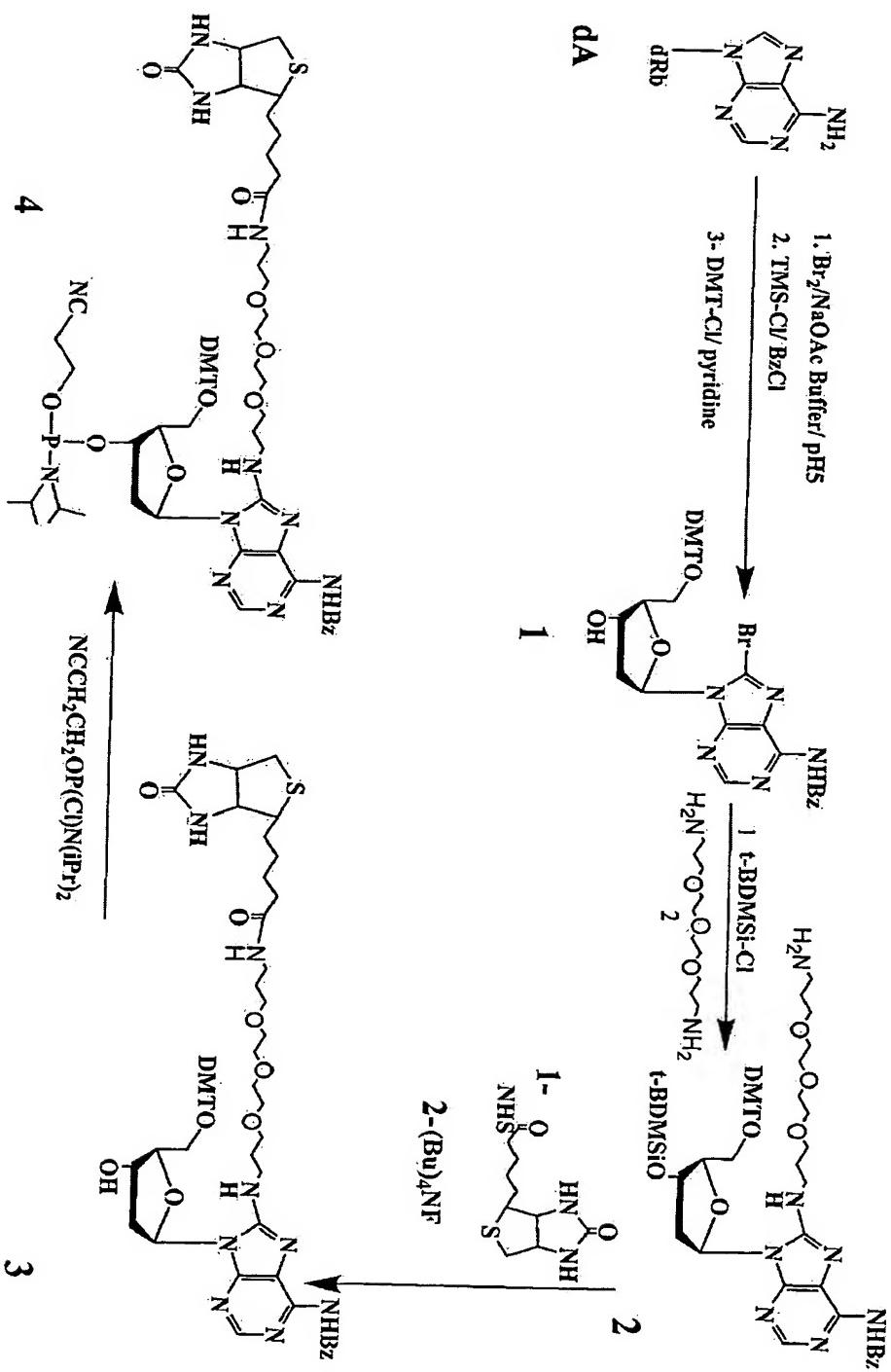


Fig. 33



**Fig. 34**